



### JUNE-2024

Q.N O.	QUESTIONS	ANS	EXPLANATION
1.	With reference to the	В	
	Constitution of India, prohibitions		
	or limitations or provisions		
	contained in ordinary laws cannot		
	act as prohibitions or limitations		
	on the constitutional powers		
	under Article 142. It could mean		
	which one of the following?		
	(a) The decisions taken by the		
	Election Commission of India while		
	discharging its duties cannot be		
	challenged in any court of law.		
	(b) The Supreme Court of India is		
	not constrained in the exercise of its		
	powers by laws made by the		
	Parliament.		
	(c) In the event of grave financial		
	crisis in the country, the President of		
	India can declare Financial		
	Emergency without the counsel from		
	the Cabinet.		
	(d) State Legislatures cannot make		
	laws on certain matters without the		
	concurrence of Union Legislature.		
2.	In which of the following cases	D	1. The ban on the sale of alcohol along
	supreme court had exercised its		national and state highways: While the
	powers under Article 142		notification by the central government
	1. The Cleansing of Taj Mahal		prohibited liquor stores along National
			Highways only, the Supreme Court put in





### JUNE-2024

- The ban on the sale of alcohol along national and state highways
- 3. Bhopal Gas Tragedy Case
- 4. M. Siddiq v. Mahant Suresh Das

# Select the correct answer using the code given below:

- (a) 1 and 2.
- (b) 2 only.
- (c) 1, 2 and 3.
- (d) 1, 2, 3 and 4.

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place a ban on a distance of 500 metres by invoking Article 142.

- The Cleansing of Taj Mahal and justice to many undertrials is a result of the invocation of Article 142
- 3. The Union Carbide case was one of the chief instances where the Supreme Court had exercised Article 142. In Union Carbide Corporation v. Union of India[21], a gas leak took place in Bhopal at the Union Carbide India due to poor maintenance of gas chambers, leading to death of nearly thousands of people.
- 4. In **M. Siddiq v. Mahant Suresh Das**[23], popularly known as the Ayodhya dispute, the Supreme Court had exercised the powers mentioned under Article 142 of the Constitution in order to achieve complete justice and had passed various orders which had not been originally prayed by the parties.

### Article 142

- Article 142 provides discretionary power to the Supreme Court as it states that the SC in the exercise of its jurisdiction may pass such decree or make such order as is necessary for doing complete justice in any cause or matter pending before it.
- In the early years of the evolution of Article
   142, the general public and the lawyers
   both lauded the SC for its efforts to bring





### JUNE-2024

			complete justice to various deprived
			sections of society or to protect the
			environment.
3.	Consider the following	C	IRDAI:
3.	Consider the following	C	
	statements regarding The		It is an <b>autonomous</b> and <b>statutory</b>
	Insurance Regulatory and		body established under the IRDA Act 1999.
	Development Authority of India		• It is the apex body that <b>supervises and</b>
	(IRDAI)		regulates the insurance sector in India.
	1. It is		• Objective: To protect the interests of
	an autonomous and statutory		<b>policyholders</b> , to <b>regulate</b> , promote and
	body		ensure orderly growth of the <b>insurance</b>
			<b>industry</b> in India.
	2. IRDAI is a 10-member body		Nodal Ministry: Ministry of Finance
	a Chairman + nine full-time		<ul> <li>Head Office: Hyderabad.</li> </ul>
	members		• <b>Composition</b> : IRDAI is a <b>10-member</b>
	Select the correct answer using		body a Chairman, five full-time members,
	the code given below:		and four part-time members appointed by
	(a) 1 only.		the Government of India.
	(b) 2 only.		Functions:
	(c) Both 1 and 2.		<ul> <li>To have a fair regulation of the</li> </ul>
	(d) Neither 1 nor 2.		insurance industry while ensuring
			financial soundness of the applicable
			laws and regulations.
			<ul> <li>Frame regulations periodically so</li> </ul>
			that there is no ambiguity in the
			insurance industry.
			<ul> <li>Registering and regulating</li> </ul>
			insurance companies;
			<ul> <li>Protecting policyholders" interests;</li> </ul>
			<ul> <li>Licensing and establishing norms fo</li> </ul>





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### JUNE-2024

			<ul> <li>r insurance intermediaries;</li> <li>Promoting professional organizations in insurance;</li> <li>Regulating and overseeing premium rates and terms of non-life insurance covers;</li> <li>Specifying financial reporting norms of insurance companies;</li> <li>Regulating investment of policyholders'' funds by insurance companies;</li> <li>Ensuring the maintenance of solvency margin by insurance companies;</li> <li>Ensuring insurance coverage in rural areas and of vulnerable sections of society.</li> </ul>
4.	Hydrogen sulfide occurs naturally	D	Production
	in		Hydrogen sulfide is often produced from
	<ol> <li>Human body.</li> <li>Crude oil.</li> </ol>		the microbial breakdown of organic matter in the absence of oxygen gas, such as in swamps and sewers. This process is
	3. Natural gas.		commonly known as anaerobic digestion.
	<ol> <li>Hot springs.</li> <li>Volcanic gases.</li> </ol>		<ul> <li>It occurs naturally in crude oil, natural gas, and hot springs.</li> </ul>
	(a) 2, 3, 4, 5 (b) 1, 2 and 3 (c) 4 and 5		<ul> <li>H2S also occurs in ****volcanic gases, natural gas and in some sources of well water.</li> </ul>





### JUNE-2024

	(d) 1, 2, 3, 4 and 5		<ul> <li>The human body ****also produces small amounts of H2S and uses it as a signalling molecule.</li> </ul>
5.	The Security Council of the UN	В	
	consists of 5 permanent members,		
	and the remaining 10 members		
	are elected by the General		
	Assembly for a term of		
	(a) 1 year		
	(b) 2 years		
	(c) 3 years		
	(d) 5 years		
6.	Consider the following	D	
	statements:		
	1. Aadhaar card can be used as		
	a proof of citizenship or		
	domicile.		
	2. Once issued, Aadhaar		
	number cannot be		
	deactivated or omitted by the		
	Issuing Authority.		
	Which of the statements given		
	above is/are correct?		
	(a) 1 only		
	(b) 2 only		
	(c) Both 1 and 2		
	(d) Neither 1 nor 2		





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7.	In the South Atlantic and South- Eastern Pacific regions in tropical latitudes, cyclone does not originate. What is the reason? (a) Sea surface temperatures are low (b) Inter-Tropical Convergence Zone seldom occurs (c) Coriolis force is too weak (d) Absence of land in those regions	В	<ul> <li>The most proximate reasons for the lack of cyclones in the South Atlantic and South Eastern Pacific ocean is the rare occurrence of the Inter-Tropical Convergence Zone (ITCZ) over the region.</li> <li>It becomes very difficult or nearly impossible to have genesis of tropical cyclones, unless synoptic vorticity (it is a clockwise or counterclockwise spin in the troposphere) and convergence (i.e., large scale spin and thunderstorm activity) are provided by ITCZ.</li> </ul>
8.	The 'Common Carbon Metric', supported by UNEP, has been developed for: (a) assessing the carbon footprint of building operations around the world (b) enabling commercial fanning entities around the world to enter carbon emission trading (c) enabling governments to assess the overall carbon footprint caused by their countries (d) assessing the overall carbon foot- print caused by the use of fossil fuels by the world in a unit time	A	
9.	The Palghat Gap is located between	A	





### JUNE-2024

	(a) Nilgiris and Anamalai hills		
	(b) Mumbai and Nashik		
	(c) Mumbai and Pune		
	(d) None of the above		
10.	In which one of the following	А	
	groups are all the four countries		
	members of G20?		
	(a) Argentina, Mexico, South Africa		
	and Turkey		
	(b) Australia, Canada, Malaysia and		
	New Zealand		
	(c) Brazil, Iran, Saudi Arabia and		
	Vietnam		
	(d) Indonesia, Japan, Singapore and		
	South Korea		
11.	. Consider the following:	D	
11.	Consider the following:     1. Carbon monoxide	D	
11.		D	
11.	1. Carbon monoxide	D	
11.	<ol> <li>Carbon monoxide</li> <li>Methane</li> </ol>	D	
11.	<ol> <li>Carbon monoxide</li> <li>Methane</li> <li>Ozone</li> </ol>	D	
11.	<ol> <li>Carbon monoxide</li> <li>Methane</li> <li>Ozone</li> <li>Sulphur dioxide</li> </ol>	D	
11.	<ol> <li>Carbon monoxide</li> <li>Methane</li> <li>Ozone</li> <li>Sulphur dioxide</li> <li>Which of the above are released</li> </ol>	D	
11.	<ol> <li>Carbon monoxide</li> <li>Methane</li> <li>Ozone</li> <li>Sulphur dioxide</li> <li>Which of the above are released into atmosphere due to the</li> </ol>	D	
11.	<ol> <li>Carbon monoxide</li> <li>Methane</li> <li>Ozone</li> <li>Sulphur dioxide</li> <li>Which of the above are released into atmosphere due to the burning of crop/biomass residue?</li> </ol>	D	
11.	<ol> <li>Carbon monoxide</li> <li>Methane</li> <li>Ozone</li> <li>Sulphur dioxide</li> <li>Which of the above are released</li> <li>into atmosphere due to the</li> <li>burning of crop/biomass residue?</li> <li>(a) 1 and 2 only</li> </ol>	D	





### JUNE-2024

12.	Consider the following provisions	В
12.	Consider the following provisions under the Directive Principles of	Б
	_	
	State Policy as enshrined in the	
	Constitution of India :	
	1. Securing for citizens of India	
	a uniform civil code	
	2. Organizing village Panchayats	
	3. Promoting cottage industries	
	in rural areas	
	4. Securing for all the workers	
	reasonable leisure and	
	cultural opportunities	
	Which of the above are the	
	Gandhian Principles that are	
	reflected in the Directive	
	Principles of State Policy?	
	(a) 1, 2 and 4 only	
	(b) 2 and 3 only	
	(c) 1, 3 and 4 only	
	(d) 1, 2, 3 and 4	
13.	. The Government enacted the	С
	Panchayat Extension to Scheduled	
	Areas (PESA) Act in 1996. Which	
	one of the following is not	
	identified as its objective?	
	(a) To provide self-governance	
	(b) To recognize traditional rights	
		1





### JUNE-2024

		1	
	(c) To create autonomous regions in		
	tribal areas		
	(d) To free tribal people from		
	exploitation		
14.	Consider the following	D	
	international agreements:		
	1. The International Treaty on		
	Plant Genetic Resources for		
	Food and Agriculture		
	2. The United Nations		
	Convention to Combat		
	Desertification		
	3. The World Heritage		
	Convention		
	Which of the above has / have a		
	bearing on the biodiversity?		
	(a) 1 and 2 only		
	(b) only		
	(c) 1 and 3 only		
	(d) 1, 2. and 3		
15.	With reference to a conservation	В	
	organization called Wetlands		
	International', which of the		
	following statements is/are		
	correct?		
	1. It is an intergovernmental		
	organization formed by the		





### JUNE-2024

	a anna trica matricale and		
	countries which are		
	signatories to Ramsar		
	Convention.		
	2. It works at the field level to		
	develop and mobilize		
	knowledge, and use the		
	practical experience to		
	advocate for better policies.		
	Select the correct answer using		
	the code given below.		
	(a) 1 only		
	(b) 2 only		
	(c) Both 1 and 2		
	(d) Neither 1 nor 2		
16.	'Yanomami' which is recently	А	President Luiz Inácio Lula da Silva-led Brazilian
	•	11	r resident Ediz mació Edia da Silva-leu Diazman
	seen in news, is a place located in	11	government has promised to speed up the
	•	1	
	seen in news, is a place located in	1	government has promised to speed up the
	<b>seen in news, is a place located in</b> (a) Brazil		government has promised to speed up the expulsion of illegal miners in the country's largest
	seen in news, is a place located in (a) Brazil (b) Japan		government has promised to speed up the expulsion of illegal miners in the country's largest indigenous territory, Yanomami, after five people
	seen in news, is a place located in (a) Brazil (b) Japan (c) Russia		government has promised to speed up the expulsion of illegal miners in the country's largest indigenous territory, Yanomami, after five people were reportedly killed in two separate violent
	seen in news, is a place located in (a) Brazil (b) Japan (c) Russia	11	government has promised to speed up the expulsion of illegal miners in the country's largest indigenous territory, Yanomami, after five people were reportedly killed in two separate violent attacks in the region
	seen in news, is a place located in (a) Brazil (b) Japan (c) Russia	11	government has promised to speed up the expulsion of illegal miners in the country's largest indigenous territory, Yanomami, after five people were reportedly killed in two separate violent attacks in the region <u>https://indianexpress.com/article/explained/expl</u>
	seen in news, is a place located in (a) Brazil (b) Japan (c) Russia	1	government has promised to speed up the expulsion of illegal miners in the country's largest indigenous territory, Yanomami, after five people were reportedly killed in two separate violent attacks in the region <u>https://indianexpress.com/article/explained/expl</u> <u>ained-global/why-is-brazil-pushing-out-illegal-</u>
17.	seen in news, is a place located in (a) Brazil (b) Japan (c) Russia	В	government has promised to speed up the expulsion of illegal miners in the country's largest indigenous territory, Yanomami, after five people were reportedly killed in two separate violent attacks in the region <u>https://indianexpress.com/article/explained/expl</u> <u>ained-global/why-is-brazil-pushing-out-illegal-</u>
17.	seen in news, is a place located in (a) Brazil (b) Japan (c) Russia (d) Sudan		government has promised to speed up the expulsion of illegal miners in the country's largest indigenous territory, Yanomami, after five people were reportedly killed in two separate violent attacks in the region <u>https://indianexpress.com/article/explained/expl</u> <u>ained-global/why-is-brazil-pushing-out-illegal-</u> <u>miners-from-its-yanomami-territory-8589973/</u>
17.	seen in news, is a place located in (a) Brazil (b) Japan (c) Russia (d) Sudan Consider the following		government has promised to speed up the expulsion of illegal miners in the country's largest indigenous territory, Yanomami, after five people were reportedly killed in two separate violent attacks in the region <u>https://indianexpress.com/article/explained/expl</u> <u>ained-global/why-is-brazil-pushing-out-illegal- miners-from-its-yanomami-territory-8589973/</u> • The <b>positive IOD</b> refers to the <b>warmer</b>
17.	seen in news, is a place located in (a) Brazil (b) Japan (c) Russia (d) Sudan  Consider the following statements regarding Indian		government has promised to speed up the expulsion of illegal miners in the country's largest indigenous territory, Yanomami, after five people were reportedly killed in two separate violent attacks in the region <u>https://indianexpress.com/article/explained/expl</u> <u>ained-global/why-is-brazil-pushing-out-illegal- miners-from-its-yanomami-territory-8589973/</u> • The <b>positive IOD</b> refers to the <b>warmer</b> <b>western basin of the Indian Ocean</b> as
17.	seen in news, is a place located in (a) Brazil (b) Japan (c) Russia (d) Sudan  Consider the following statements regarding Indian Ocean Dipole (IOD)		<ul> <li>government has promised to speed up the expulsion of illegal miners in the country's largest indigenous territory, Yanomami, after five people were reportedly killed in two separate violent attacks in the region</li> <li>https://indianexpress.com/article/explained/expl ained-global/why-is-brazil-pushing-out-illegal-miners-from-its-yanomami-territory-8589973/</li> <li>The positive IOD refers to the warmer western basin of the Indian Ocean as compared to the Eastern basin.</li> </ul>





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### JUNE-2024

	in sea surface temperature	across the tropical Indian Ocean have
	-	-
	between tropical Western	aided the upwelling of cooler water in
	Indian Ocean and tropical	the eastern Indian Ocean (closer to
	Eastern Pacific Ocean.	Australia).
	2. An IOD phenomenon can	• At the same time, warm waters off
	influence an El Nino's impact	the Horn of Africa (West Indian
	on the monsoon.	Ocean) have caused an even greater
	Select the correct answer using	temperature across the basin.
	the code given below:	
	(a) 1 only	
	(b) 2 only	
	(c) Both 1 and 2	
	(d) Neither 1 nor 2	
	()	
18.	Consider the following statements	B • The language used in Courts in India has
		seen a transition over centuries with the
	1. All the states in India have	shift from Urdu to Persian and Farsi
	already authorised the use of	scripts during the Mughal period which
	Hindi in proceedings in the	continued in subordinate courts even during
	High Court.	the British Rule.The <b>British introduced a</b>
	2. State government has the	codified system of law in India with
	power to declare any regional	<b>English</b> as the official language.Post-
	language as an alternative for	independence, <b>Article 343</b> **of the
	the proceedings of the court.	Constitution of India provides that the
	However, judgments, orders,	official language of the Union shall be Hindi
	and decree may be passed by	in the Devanagari script.**However,
	the magistrate in English.	it mandated that the English language
	Select the correct answer using	will continue to be used for all official
	the code given below:	purposes of the Union for 15 years from
	(a) 1 only.	the commencement of the Constitution of





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### JUNE-2024

(b) 2 only.	India.It further provides that
(c) Both 1 and 2.	the <b>President</b> may, during the said period,
(d) Neither 1 nor 2.	by order to authorise the use of the Hindi
	language for any official purpose of the
	Union, other than the English language.
	• About:
	Article 348(1)(a) states that unless
	Parliament by law provides otherwise,
	all proceedings before the <b>Supreme</b>
	<b>Court</b> and in every High Court shall
	be <b>conducted in English.</b>
	Article 348(2) provides further that
	notwithstanding the provisions of
	Article 348(1), the <b>Governor of a</b>
	state may, with the previous
	consent of the President, authorise
	the use of Hindi or any other
	language used for any official
	purpose, in proceedings in the High
	Court.
	<ul> <li>States of Uttar Pradesh,</li> </ul>
	Bihar, Rajasthan and
	Madhya Pradesh have
	already authorised the use of
	Hindi in proceedings before
	their respective high courts
	and taking a cue, Tamil Nadu
	is also working in that
	direction – to authorise the use
	of Tamil before its high court.
	• A further provision states that
	nothing in this clause would apply to





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### JUNE-2024

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any judgement, decree, or order made by the High Court.

•	Therefore, the Constitution
	recognizes English as the primary
	language of the Supreme Court and
	the High Courts, with the caveat
	that when some other language is
	used in the proceedings of High
	Courts, judgments of the High Courts
	must be delivered in English.
<ul> <li>Offici</li> </ul>	al Languages Act 1963:
•	It empowers <b>the Governor of a state</b>
	to, with previous consent of the
	President, authorise the use of
	Hindi/the official language of the
	state, in addition to English, for the
	purpose of any judgement, decree or
	order passed by the High Court of
	that state.
-	It further <b>provides that where any</b>
	judgement/decree/order is passed
	in any such language it shall be
	accompanied by a translation of the
	same in English.
	• Read with the constitutional
	provisions, it is clear
	that <b>primacy is given to</b>
	English even by this Act.
•	The Official Languages Act <b>makes no</b>
	mention of the Supreme Court,
	where English is the only language
	in which proceedings are





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#### conducted.

#### Note:

- The litigant has the **fundamental right** to understand and participate in the courtroom proceedings as it arguably confers a bundle of rights under **Article 19** and **Article 21**.
- The **litigant has the right to speak in the language he/she understands before the magistrate.** Similarly "right to justice" is also recognised under Article 21 of the Constitution.
- So, the constitution has conferred the right to justice on the litigant which further encompasses that he shall have the right to understand the whole proceedings and the judgement delivered.

### • Language of Subordinate Courts:

- The language of all courts subordinate to High Courts generally remains the same as the language on the commencement of the Civil Procedure Code 1908, till the state government determines.
- There are two provisions regarding the use of language in subordinate courts. Under Section 137 of the Code of Civil Procedure, the language of the district courts shall be similar to the language of the act.
- The state government has the





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### JUNE-2024

			power to declare any regional
			language as an alternative for the
			proceedings of the court.
			110 (101 (101 <b>, Juag-1101 (0) (101 (0)</b>
			and decree may be passed by
			the magistrate in English.
			<ul> <li>The recording of the</li> </ul>
			evidence shall be done in the
			prevailing <b>language of the</b>
			state.
			<ul> <li>In case of a pleader being</li> </ul>
			unacquainted with English, a
			translation into the language
			of the court shall be supplied
			to him on his request and the
			court shall bear such costs.
			<ul> <li>Section 272 of the Code of</li> </ul>
			Criminal Procedure 1973, states
			that the State government shall
			determine the language of all courts
			other than the High Courts. So,
			broadly it means that the language
			used in the district courts shall be in
			the regional language as the state
			government directs.
19.	Consider the following	В	Both international and domestic buyers have
	1. Emamectin		rejected a series of tea consignments due to the
			presence of pesticides and chemicals beyond
	2. Benzoate		permissible limits.
	3. Fenpyroximate		https://indianexpress.com/article/business/world
L		1	





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### JUNE-2024

	4. Hexaconazole		-market/high-pesticides-indian-tea-7951300/
	5. Propiconazole		
	6. Quinalphos.		
	The above mentioned, which is		
	recently seen in news refers to		
	(a) Active Pharmaceutical Ingredient		
	(API)		
	(b) Pesticides		
	(c) Fungicides		
	(d) Weedicides		
20.	Consider the following	D	
	statements:		
	1. Union Territories are not		
	represented in the Rajya		
	Sabha.		
	2. It is within the purview of the		
	Chief Election Commissioner		
	to adjudicate the election		
	disputes.		
	disputes.		
	3. According to the Constitution		
	of India, the Parliament		
	consists of the Lok Sabha and		
	the Rajya Sabha only.		
	Which of the statements given		
	above is/are correct?		
	(a) 1 only		
	(b) 2 and 3		
	(c) 1 and 3		





### JUNE-2024

	(d) None		
21	How many of these have Coal	D	Over 97 per cent of coal reserves occur in the
	reserves in India?		valleys of Damodar, Sone, Mahanadi and Godavari.
	Consider the following river		They lie in the Jharkhand-Bengal coal belt and the
	valleys.		important coal fields in this region are Raniganj,
	1. Damodar		Jharia, Bokaro, Giridih, and Karanpura.
	2. Godavari		$\cdot$ Jharkhand has the first rank in coal reserves and
	3. Mahanadi		its production.
	4. Sone		$\cdot$ Most of the coalfields in the state of Jharkhand
			are located in a narrow belt running in the east-
	Only one		west direction almost along 24 degrees north
	Only two		latitude from the Gondwana period.
	Only three		$\cdot$ The main coal mining centres of the state are
	All the four		Auranga, Bokaro, Dhanbad, Jharia, Giridh,
			Karanpur, Ramgarh and Hutar.
			$\cdot$ Jharia coalfield is one of the oldest and richest
			coal fields of India.
			$\cdot$ It lies south of Dhanbad and stores the best of
			metallurgical coal (bituminous) in the country.
22	With reference to the Gross	A	https://iasgoogle.com/n/explain-the-difference-
	Domestic Product (GDP) of an		between-computing-methodology-of-indias-gross-
	economy, consider the following		domestic-product-gdp-before-the-year-2015-and-
	statements:		after-the-year-2015
	1. Since 2015, India has been		
	calculating the GDP at the basic		
	prices, rather than at the market		
	prices.		
	2. The GDP at the basic prices is		
	derived by deducting the GDP at		





### JUNE-2024

the market prices with net of product taxes and subsidies.Which of the statements given above is/are incorrect?(a) Only one (b) 2 only (c) Both 1 and 2		
(d) Neither 1 nor 2		
23 The following activities could be possibly used to reduce global	В	All the options given above are included under Climate engineering, also referred to as geo-
warming.		engineering It is the deliberate and large-scale
1. Using giant mirrors in space		intervention in the Earth""s climatic system with
2. Use of bio-char		the aim of reducing global warming: -
3. Increasing the amount of iron		ü Use of giant mirrors in space to reflect the
in the ocean.		sunlight so as to reduce the warming of earth.
		ü Aerosols in space also reflect the incoming
1 and 2 only		sunlight and thus reduce the warming of earth.
1, 2 and 3		ü Biochar is essentially charcoal made through
1 only		pyrolysis of biomass and then burying it mixed with the soil. With regard to long-term carbon
1 and 3 only		storage potential, biochar can work on a large scale
		with, in most cases, no negative soil side effects,
		but increase its fertility. Some estimates show
		biochar having the potential to sequester one
		billion tons of $CO_2$ each year.
		ü Fertilizing the oceans with iron to stimulate
		phytoplankton blooms to absorb carbon dioxide
		from the atmosphere and export carbon to the deep
		sea is another possible option.
		However, all these steps are still contested and yet





### JUNE-2024

			remain a possible option to be taken up on a large scale.
24	"Dirty Dozen" to refer to	A	These 12 chemicals include 8 pesticides (Aldrin,
	Persistent Organic Pollutants was		Chlordane, DDT, Dieldrin, Endrin, Heptachlor,
	coined by		Mirex and Toxaphene), two industrial chemicals
			(Polychlorinated biphenyls and hexachlorobenzene)
	IUCN		and 2 unintended by products- dioxins and furans.
	WWF		https://www.unep.org/cep/persistent-organic-
	UNEP		pollutants-pops-and-pesticides
	GEF		
25	Which one of the following	с	The Company forced the states into a "subsidiary
	statements does not apply to the		alliance". According to the terms of this alliance,
	system of Subsidiary Alliance		Indian rulers were not allowed to have their
	introduced by Lord Wellesley?		independent armed forces. They were to be
			protected by the Company, but had to pay for the
	a) To maintain a large standing army		"subsidiary forces" that the Company was
	at other's expense		supposed to maintain for the purpose of this
	b) To keep India safe from		protection. If the Indian rulers failed to make the
	Napoleonic danger		payment, then part of their territory was taken
	c) To secure a fixed income for the		away as penalty.
	Company		• Napoleonic invasion of Egypt in the summer of
	d) To establish British paramountcy		1798 offered Wellesly a useful tool to soften
	over the Indian States		London''''s resistance to expansion, although he
			never believed for a moment that there was any
			danger of a French invasion of British India either
			over land from Egypt or a naval attack round the
			Cape of Good Hope. However, to assuage
			London''''s concerns he evolved the policy of
			""Subsidiary Alliance"", which would only establish





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### JUNE-2024

control over the internal affairs of an Indian state,
without incurring any direct imperial liability.
$\cdot$ $$ There was no component of fixed income under
this system.
Subsidiary Alliance
Under the Subsidiary Alliance system, the Indian
ruler who is in question would be protected against
any external attacks. In response to it, the rulers
should:
• Post the company army in the capital of their
state.
· Provide capital or territory for the company
for maintenance of the troops.
• Expulsion of other Europeans from the state,
whether they were employed in the army or civil
service.
· A European official is to be kept as a
"resident" of the capital of the state. This meant, no
direct correspondence is possible with other states,
without the resident's approval.
Chronology of States under Subsidiary Alliance
States
Hyderabad
Mysore
Tanjore
Awadh
Peshwa (Marathas)
Scindia (Marathas)





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### JUNE-2024

Gaekwad (Marathas)
Features of the Subsidiary Alliance Treaty
• The initiation of the subsidiary alliance
system was done by Lord Wellesley but introduced
by the French Governor-General Dupleix.
• While entering into a subsidiary alliance with
the British, the Indian rulers had to do away with
their armed forces and accept the British forces in
their territory.
• He also had to pay for the maintenance of
the British army and if failed to make the
payments, a portion of his territory would be taken
away and given to the British state.
· In favor, the British would protect the Indian
state against any form of foreign attack or any
internal revolt.
• The British promised non-interference in the
internal affairs of Indian states, but this was hardly
kept.
· Indian states were not allowed to enter
alliances with any other foreign power. He would
also not employ any other foreign nationals other
than Englishmen at his service.
· Indian states were not allowed to enter any
political connection with any other Indian state
without the permission of the British.
· The control and power of Indian rulers were
hence lost concerning foreign affairs and the
military. The Indian ruler became the British
"protectorate".
Effects of Subsidiary Alliance System





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### JUNE-2024

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Due to the imposition of the subsidiary alliances, the Indian rulers were disbanded and many people were rendered unemployed. Many of the Indian states have lost independence and most parts of the Indian subcontinent were coming under the British sway. The first one to accept the subsidiary alliance was the Nizam of Hyderabad in 1798. Lord Clive introduced the subsidiary alliance in Oudh and the subsequent Treaty of Allahabad was signed; where the British promised Oudh territory from enemies like the Marathas.

#### **Impact of Subsidiary Alliance System**

• In case of failure of the ruler to make the payment, a portion of his territory was taken and ceded to the British, in the name of maintaining the troops.

• Subsidiary alliances acted as "Trojan horse tactics" in case of building the empire; which disarmed the Indian rulers and placed them under the protection of the British.

• The Governor-General placed a proxy in every Indian state which accepted a subsidiary alliance.

• It helped the company to maintain a large standing army at the expense of Indian princes.

 It gave the control of strategic and key positions in India and Britishers wielded considerable influence on the internal affairs of the Indian state. It also reduced the threat from the French army.

Various stages of the Subsidiary Alliance System





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### JUNE-2024

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• In the foremost stage of the subsidiary alliance, the English asked for a fixed army from the native rulers in exchange for a fixed sum of money.

• Next stage, the English keep a permanent military force in the states of natives to assist the allies in exchange for an annual sum of money.

• In the third stage, the English asked not only to maintain a fixed subsidiary force but also to keep the force within the boundaries of the allies.

 In the final stage, a fixed and permanent force was kept within the territories of their allies, which was started by Lord Wellesley.

### Subsidiary Alliance System Impacts Nizam of Hyderabad

The Nizam of Hyderabad ties were broken with the French in 1798 and allying with the Marathas was made illegal if permission from the British was not sought. The Nizam was the first one to sign the contract of a Subsidiary Alliance.

### Nawab of Awadh

Mysore became the second state under a subsidiary alliance in the year 1799 and in 1801, Nawab of Awadh was forced to join the Subsidiary Alliance policy.

### Peshwa Baji Rao II

Peshwa Baji Rao II used the subsidiary alliances system to subdue his realm and by 1803 many Maratha states agreed to the policy like that of Scindia and Bhosle. Even the last of the confederation, the Holkars, also agreed on the requirements of the policy.





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Treaty of Allahabad
Treaty was adopted by Lord Clive in Oudh and the
Treaty of Allahabad was formed, in which the
British committed to protecting the Oudh area
from adversaries. Gorakhpur, Rohilkand, and Doab
were also forcibly given the maintenance of troops
by the company.
Advantages of the Subsidiary Alliance System
on the Britishers
1. There were many advantages of the subsidiary
alliance with the Britishers. Some of the benefits
are mentioned below:
2. The French would no longer be employed in
the courts of the native rulers, which was a
complete advantage for the Britishers; as their
influence was wiped out.
3. There was a bridge created between the native
states, as most of the things were controlled by the
Britishers under the subsidiary alliance policy.
4. The area of influence of the Britishers was
expanded and the natives became entirely
dependent on the Britishers due to the presence of
British forces in their states. They were reduced to
being the British "protectorate" under the policy of
subsidiary alliances.
5. Britishers had the plus point of maintaining a
large military force at the expense of native rulers
and the territories of the native rulers would be
utilized in an optimum way by the Britishers.
6. Maintenance of the subsidiary alliance policy
was expensive and hence heavy financial pressure
was felt by the natives; because of this natives had
<i>, , , , , , , , , ,</i>





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<b></b>			
			to surrender most of their territories; which helped
			to expand their hold in the country.
			Disadvantages of Subsidiary Alliance System on
			the Native Rulers
			$\cdot$ The subsidiary alliance came to be a big
			disadvantage for the native rulers. This can be
			pointed out from the following:
			$\cdot$ They slowly lost most of the fertile lands and
			important locations to that the British.
			• Financial pressure was huge from the subsidiary
			alliance which pushed people to live in poverty, for
			maintaining the army felt directly on the people.
			· According to the policy, Britishers couldn't
			interfere in the policies of the native rulers;
			however in reality they often interfered in every
			state matter.
			$\cdot$ The position and prestige of the rulers gradually
			felt in the eyes of the masses whom they governed
			and this resulted in the loss of their capacity and
			also personality to rule these states.
			• Subjects of the state were also no longer in
			control of the matters and couldn't dethrone
			incompetent rulers because the British protected
			the allied rulers against internal and external
			forces.
26	Which of the above is/are	C	https://www.thehindu.com/opinion/lead/charting
	incorrect w.r.t. Demographic		-a-path-for-the-population-
	Transition Theory?.		committee/article67825927.ece#:~:text=With%20t
	1. It studies the relationship		he%20TFR%20projected%20to,of%20the%20worki
	between economic development		ng%2Dage%20population
	F		





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and population growth. 2. It can be used to describe and predict the future population of an area.

- a) 1 Only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Demographic transition theory can be used to describe and predict the future population of any area. The theory tells us that population of any region changes from high births and high deaths to low births and low deaths as society progresses from rural agrarian and illiterate to urban industrial and literate society. These changes occur in stages which are collectively known as the demographic cycle.

- Demographic transition is a term, first used by Warren S. Thompson (1929), and later on by Frank W. Notestein (1945), referring to a historical process of change that accounts for the trends in births, deaths, and population growth that occurred in today's industrialized societies, especially European societies. This process of demographic change began for the most part in the later 18th century.
- The demographic transition should not be regarded as a 'law of population growth but as a generalized description of the evolutionary process. In simple terms, it is a theory that attempts to specify general laws by which human populations change in size and structure during industrialization. It is frequently accepted as a useful tool in describing the demographic history of a country.
- The theory postulates a particular pattern of demographic change from high fertility and





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high mortality to low fertility and low mortality when society progresses from a largely rural agrarian and illiterate society to a dominant urban, industrial, literate and modern society. The model has four stages: pre-industrial, urbanizing/industrializing, mature industrial, and post-industrial. The theory of demographic transition deals with the transition from high to low birth rates and death rates. These stages of demographic transition can be explained with the help of diagram 3 given below: Stage I is characterised by a high birth rate, death rate, and low rate of population growth. The first stage of demographic transition is characterized by high birth rates and high death rates. The first stage of demographic • transition was experienced in India, during the period of 1891-1921. Stage II is characterised by a high and stationary birth rate, rapidly declining death rate, and very rapid increase in population.





### JUNE-2024

			<ul> <li>India entered Stage II after 1921.</li> </ul>
			<ul> <li>Stage III is characterised by a falling</li> </ul>
			birth rate, low and stationary death rate,
			and a rapidly rising population.
			• Stage IV is characterised by a low birth rate
			and low death rate with a stationary
			population at a low level.
27.	Which one of the following	d	Indira Gandhi Canal originated from Harike
	statements is not true?.		barrage at Sultanpur on Sutlej but Ghaggar is a
	a) Ghaggar is a tributary of river		tributary of river Saraswati, which ends in the Thar
	Saraswati, which ends in the Thar		desert.
	desert.		Damodar is an east-flowing river with a rift valley
	b) Damodar river has a rift valley		due to down warping. A down warp denotes a
	due to down warping.		segment of the earth's crust that is broadly bent
	c) Nizam Sagar is situated on the		downward.
	Manjra River.		The Narmada, the biggest west streaming waterway
	d) Manjra River is a tributary of the		of the Peninsula, ascends close to the Amarkantak
	Krishna.		scope of mountains in Madhya Pradesh.
			Nizam Sagar is the oldest dam in the state of
			Telangana, situated on the Manjra River. Manjira
			River is a tributary of the Godavari River, between
			Achampet and BanjePally villages of the
			Kamareddy district in Telangana, India. It is
			located at about 144 km (89 mi) north-west of
			Hyderabad.
			The Painganga River is the central stream of the
			Buldhana area, Hingoli region, Nanded locale,
			Yavatmal region, Chandrapur region, and Washim
			region in the Maharashtra state in India.





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### JUNE-2024

28

**Consider the following** 

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statements:
1. Almost all the weather
phenomena like rainfall, fog and
hailstorm occur in Troposphere.
2. Meteorites burn up in
Mesosphere on entering from the
space.
Which of these statements are

correct?

- a) 1 and 2 are correct
- b) Only 1 is correct
- c) Only 2 is correct
- d) None is correct

Mesosphere: This is the third layer of the atmosphere. It lies above the stratosphere. It extends up to a height of 80 km. Meteorites burn up in this layer on entering from the space. Weather Phenomena in the Troposphere The troposphere is the lowest layer of the Earth'''s atmosphere, extending from the Earth'''s surface up to an average height of about 7-20 kilometers (4-12 miles). It is the layer in which weather phenomena occur. Here is a detailed explanation of the weather phenomena that occur in the troposphere:

### 1. Rainfall

Rainfall is a common weather phenomenon that occurs in the troposphere. It is the result of the condensation of water vapor in the air, which forms clouds. When the water droplets in the clouds become too large to be suspended in the air, they fall to the ground as precipitation, which can be in the form of rain, snow, sleet, or hail.

### 2. Fog

Fog is another weather phenomenon that occurs in the troposphere. It is a cloud that forms near the ground when the air is cooled to its dew point, causing the water vapor in the air to condense into water droplets. Fog reduces visibility and can be formed by various processes such as radiation fog, advection fog, and upslope fog.





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			3. Hailstorm
			Hailstorms are severe weather events that can
			occur in the troposphere. They are characterized by
			the formation of large hailstones, which are balls of
			ice that can range in size from small pebbles to golf
			balls or even larger. Hailstones are formed when
			updrafts in thunderstorms carry raindrops upward
			into extremely cold areas of the atmosphere, where
			they freeze and accumulate layers of ice.
			Eventually, the hailstones become too heavy for the
			updrafts to support and fall to the ground during a
			hailstorm.
29	Which of the following is correct	a	A is an explanation
	definition of Biosphere reserves?.		
	a) Biosphere Reserves are areas of		
	terrestrial and coastal ecosystems		
	some of which are internationally		
	recognized within the framework of		
	the Man and the Biosphere		
	Programme of UNESCO.		
	b) Biosphere Reserves are areas of		
	terrestrial and coastal ecosystems		
	some of which are internationally		
	recognized within the framework of		
	the Man and the Biosphere		
	Programme of UNEP.		
	c) Biosphere Reserves are areas of		
	terrestrial and coastal ecosystems		
	some of which are internationally		
	recognized within the framework of		





### JUNE-2024

	<ul> <li>the Man and the Biosphere</li> <li>Programme of UNDP.</li> <li>d) Biosphere Reserves are areas of</li> <li>terrestrial and coastal ecosystems</li> <li>some of which are internationally</li> <li>recognized within the framework of</li> <li>the Man and the Biosphere</li> <li>Programme of FAO.</li> </ul>		
30	Consider the following	a	The formal proclamation of the Swadeshi
	statements w.r.t. Swadeshi		movement was made on August 7, 1905 at a
	movement:		meeting held at the Calcutta Town Hall. Leaders
	1. It was initiated by the		like Surendranath Banerjee, Ananda Mohan Bose,
	moderates, but was taken over by		K. K. Mitra. Prithwischadra Ray attempted to bring
	the revolutionary nationalists at a		the people of Bengal through addressing a huge
	later stage.		gathering. Soon the movement spread to other
	2. It was marked by the mass		parts of the country; in Pune and Bombay under
	mobilization through labour		Tilak, in Punjab under Lala Lajpat Rai and Ajit
	strikes.		Singh, in Delhi under Syed Haider Raza and in Madras under Chaidamabaram Pillai.
	3. It promoted Atma Shakti.		
	Which of the statements given		The Swadeshi Movement introduced the concept of
	above are correct?		boycotting foreign goods, which aimed to hit the british economically. it became a means for indians
			to assert their economic independence and protest
	a) 1, 2 and 3		against british policies. the movement also
	b) 1 only c) 1 and 2 only		emphasized the importance of national education
	d) 3 only		and enterprises, promoting self-rule (swaraj) and
			self-assurance (atma
31	What is/are true about "F-	a	Fluorinated greenhouse gases (F-gases) highly
	gases" that are seen in news		contribute to global warming. Their warming
	<b>G</b>		





### JUNE-2024

	sometimes?.		impact is often thousands of times higher than
			that of carbon dioxide ( $CO_2$ ). Initially introduced to
	a) They are powerful greenhouse		replace ozone-depleting substances (ODS), F-gases
	gases.		were found to trap heat from the sun and thus
	b) They are not included in the		make the planet warm up faster.
	basket of gases controlled by the		Hydrofluorocarbons (HFCs), Perfluorocarbons
	Kyoto Protocol, as they occur		(PFCs) and Sulphur Hexafluoride (SF <sub>6</sub> ) are
	naturally in the atmosphere		collectively known as fluorinated greenhouse gases.
	c) Both (a) & (b)		
	(d) Neither (a) nor (b)		
32	With reference to the President''s	А	President's Rule :
	rule, consider the following		Grounds of Imposition :
	statements:		Article 356 empowers the President to issue a
	1. It is imposed under Article 365		proclamation if he is satisfied that a situation has
	of the Indian Constitution.		arisen in which <b>the government of a state</b>
	2. A proclamation imposing		cannot be carried on in accordance with the
	President's Rule must be approved		provisions of the Constitution. Notably, the
	by both the Houses of Parliament		president can act either on a report of the governor
	within 30 days from the date of		of the state or otherwise too (i.e., even without the
	its issue.		governor's report).
	Which of the statements given		Article 365 says that whenever a state fails to
	above is/are correct?		comply with or to give effect to any direction
			from the Centre, it will be lawful for the president
	A) 1 only		to hold that a situation has arisen in which the
	B) 2 only		government of the state cannot be carried on in
	c) Both 1 and 2		accordance with the provisions of the Constitution.
	d) Neither 1 nor 2		Parliamentary Approval and Duration :
			A proclamation imposing <b>President's Rule must</b>
			be approved by both the Houses of
			Parliament within two months from the date of





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### its issue. Hence, Statement 2 is not correct.

However, if the proclamation of President's Rule is issued at a time when the Lok Sabha has been dissolved or the dissolution of the Lok Sabha takes place during the period of two months without approving the proclamation, then the proclamation survives until 30 days from the first sitting of the Lok Sabha after its reconstitution, provided the Rajya Sabha approves it in the meantime.

If approved by both the Houses of Parliament, **the President's Rule continues for six months**. It can be **extended for a maximum period of three years** with the **approval of the Parliament**, **every six months**.

Consequences of President's Rule : He/She can take up the functions of the state government and powers vested in the governor or any other executive authority in the state. S/He can declare that the powers of the state legislature are to be exercised by the Parliament.

She/He can take all other necessary steps including the suspension of the constitutional provisions relating to anybody or authority in the state.

The President either suspends or dissolves the state legislative assembly. In case of dissolution, fresh elections are held for constituting a new legislative assembly in the state.





### JUNE-2024

33	For the first time the draft of the	D	First draft of the Indian constitution was prepared		
	Indian Constitution was framed by		by <b>B N Rau</b> .		
			· Constituent Assembly had appointed <b>22</b>		
	a) Dr. BR Ambedkar b) Jawaharlal Nehru c) KM Munshi d) BN Rau		<b>committees</b> and assigned different issues to deal		
			with.		
			· These committees submitted their reports		
			<ul> <li>between April and August 1947.</li> <li>Then based on these reports <b>BN Rau, the</b></li> </ul>		
			constitutional advisor to the		
			constituent assembly drafted the initial draft of		
			the Indian constitution in October 1947.		
			• That draft contained <b>240 clauses and 13</b>		
			schedules.		
			$\cdot$ Then this draft was forwarded to the Drafting		
			Committee for further procedure.		
34	Which of the following is/are	С	https://www.deccanherald.com/india/arunacha		
	true ?.		l-pradesh/arunachal-tribe-donates-land-for-		
	1. The Buguns are a major tribe		critically-endangered-songbird-bugun-liocichla-		
	living near Eaglenest Wildlife		2940635		
	Sanctuary.				
	2. Eaglenest Wildlife Sanctuary is				
	in Arunachal Pradesh.				
	(a) Only one				
	(b) Only two				
	(c) Both 1 and 2				
	(d) Neither 1 nor 2				
35	Which of the following is	А	Seljuk architecture is characterized by its use of		
	characterized by a beehive shaped		stone and brick, its elaborate geometric and vegetal		





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curvilinear tower made up of layer upon layer of architectural elements and a cruciform ground plan?.

a) Nagara style of templearchitectureb) Dravidian style of templearchitecturec) Vesara style of temple architectured) Seljuq style of temple architecture

decoration, and its towering minarets. Khilji Bas ruled from 1290 AD to 1320 AD and established the Saljuk style of architecture. The specialty of the construction of this period is the use of red sandstone. Along with this, the arched style gained prominence in this period. Seljuq architectural tradition is noticed in

1. The Alai Darwaza in the Qutub complex

2. Jamat Khana Masjid at Nizamuddin.

Aspect	Nagara	Dravidian	
Region	Northern India	Southern India	
Vimana (Tower) Shape	Curvilinear (Shikhara)	Rectangular (Gopuram)	
Entrance	Generally single entrance on the east side	Multiple entrances, often elaborate and decorated	
Mandapa (Pillared Hall)	Typically two types: Ardha Mandapa (front) and Maha Mandapa (main hall)	Typically larger and more elaborate with multiple halls	
Material	Often built with sandstone or brick	Usually constructed with granite or other local	





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### JUNE-2024

				stone		
			~ *			
		Garbhagri	Smaller, usually	Generally		
		ha (Inner	square or	larger and		
		Sanctum)	circular	rectangular		
		Decoration	Complex carvings and sculptures on outer walls	Elaborate sculptures and carvings showing deities and mythological scenes		
	Ve		Influenced by	Influenced by		
		Vedic and Indo-	Dravidian and			
		Influence	nce Aryan	Tamil		
			architecture	architecture		
	Exan		Kandariya	Brihadeeswara		
			Mahadeva	r Temple in		
		Examples	Temple in	Thanjavur,		
		Examples	Khajuraho,	Meenakshi		
			Somnath Temple	Temple in		
			in Gujarat	Madurai		
		Vesara is a co	mbination of Nagara	ι and Dravidian		
		style of temple	e architecture styles.	. The term Vesara		
		is believed to have been derived from the Sanskrit				
		word <b>vishra</b> n	neaning an area to ta	ake a long walk.		
		Many historia	n agree that the Ves	ara style		
		originated in t	the what is <b>today K</b> a	arnataka.		
		The trend was started by the <b>Chalukyas of</b> <b>Badami (500-753AD</b> ) who built temples in a style that was essentially a mixture of the Nagara and				





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the Dravida styles, further refined by the **Rashtrakutas of Manyakheta (750- 983AD) in Ellora, Chalukyas of Kalyani (983-1195 AD)** in **Lakkundi, Dambal, Gadag** etc. and epitomized by the **Hoysalas (1000-1330 AD)** The Hoysalas temples at **Belur, Halebidu and Somnathpura** are prime examples of this style. <u>Unique features</u> of Vesara style of temple architecture

- Ornamentation: In case of ornamentation of temple walls and pillars, Chalukyan temple shows indigenous quality.
- **Transformation of Dravida tower**: The Chalukyan builders modified the Dravida towers by minimizing the height of each storey and arranging them in descending order of height from base to top with much ornamentation in each storey.
- **Transformation of Nagara tower**: Instead of inclined storey here modification is seen in the vertical shape of the tower
- Two special features of Chalukya temples
   Mantapa and Pillars:
  - Mantapa: The mantapa has two types of roof – domical ceilings (the dome like ceilings standing on four pillars are very attractive) or Square ceilings (these are vigorously ornamented with mythological pictures).
  - 2. **Pillars**: the miniature decorative pillars of Chalukya temples stands





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### JUNE-2024

	with its own artistic value.
	<ul> <li>Famous temples built with this style</li> </ul>
	<b>include:</b> Kallesvara temple, Kukkanur;
	Ramalingesvara temple, Gudur; Mahadeva
	temple, Ittagi; Kasivisvesvara temple,
	Lakkundi (and several other temples at
	Lakkundi); Brahmadeva temple, Savadi –
	notable for being fully stellate; Mallikarjuna
	temple, Sudi (and Joda-kalasha temple)
	Influence of Nagara and Dravidian style of
	temple architecture on the style of Vesara
	<ul> <li>The plan of shrine, subsidiary shrine, panchayatan style bears similarity to Nagara School.</li> </ul>
	<ul> <li>The plan of vestibule joining the sanctum to mantapa bears resemblance to Odishan temples.</li> </ul>
	• The most of the temple pillars in Karnataka
	region bears similarity to <b>sekhari and</b>
	bhumija type of pillars in northern India.
	• The stepped diamond plan that is a plan of
	design arrangement as seen in <b>Chalukya</b>
	temples is from northern region.
	<ul> <li>The most of the temples in kalyani</li> </ul>
	portrays Nagara articulation projecting
	stepped diamond or stellate plan.
	• The Dravida influence is mainly visible in
	<b>vimana</b> of the Chalukya temples in first part
	of the Chalukya rule
	<ul> <li>Miniature decorative towers and</li> </ul>
L	





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show combination of both Nagara and Dravida style.

# Famous temples built during the reign of several empires in South India Chalukyan architecture

- Their architecture consisted of admixture of Nagara and Dravidian styles.
- Temples built during this time can be found in- Aihole, Badami and Pattadakal
- Temples built during their time period do not have a covered ambulatory path
- The **Virupaksha temple** at **Pattadakal** built in imitation of Kailashnath temple is the jewel of Chalukyan architecture
- The Rameshwaram temple at Ellora built in 7<sup>th</sup> century was also built during the Chalukyan time period
- Lad Khan temple and Durga temple at Aihole are other noteworthy monuments built during this time period

#### Rashtrakuta architecture

- They were the successors of the Chalukyas
- Their temples were built mostly imitating the Chalukyan style
- The **Kailas temple at Ellora**, built during the time of Krishna II is the representative form of architecture of the empire
- The **Navalinga Temples in Kukkanur** is another temple built during this period





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Hoysala temple architecture
• Kesava temple at Belur built during the
time of Vishnuvardhana to commemorate
his victory over the Cholas is a
representative art of this period
• In this temple, there are multiple shrines
grouped around a central pillared hall and
laid out in the shape of an intricately-
designed star
<ul> <li>Such an arrangement could be found in</li> </ul>
temples during this time in Halebid,
Somnathpur and elsewhere
<ul> <li>Hoysaleswara temple dedicated to Lord</li> </ul>
Shiva is another famous temple built during
this period
Vijayanagara architecture
<ul> <li>It is a vibrant combination of the Chalukya,</li> </ul>
Hoysala, Pandya, and Chola styles
<ul> <li>Local hard granite was the building material</li> </ul>
of choice, as it had been for the Badami
Chalukyas.
<ul> <li>Vijayanagar temples are characterized by</li> </ul>
ornate pillared halls and rayagopurams, or
monumental towers adorned with life-sized
figures of gods and goddesses that stand at
the entrance of the temple.
<ul> <li>Vijayanagar temples are also known for their carved pillars, which depict charging</li> </ul>
their carved pillars , which depict charging horses, figures from Hindu mythology,
and yali (hippogriphs)





# JUNE-2024

			Some of the larger temples are dedicated to
			a male deity, with a separate shrine
			intended for the worship of his female
			counterpart. Some famous temples
			exemplifying the Vijayanagar style include
			the Virupaksha Temple at Hampi and the
			Hazara Rama temple of Deva Raya I.
36	Which of the following may result	b	The Citizenship Act, 1955, prescribes three ways of
	in loss of citizenship of an Indian		losing citizenship whether acquired under the Act
	citizen?		or prior to it under the Constitution, viz,
	1. If the citizen voluntarily		renunciation, termination and deprivation: When
	acquires citizenship of another		an Indian citizen voluntarily (consciously,
	country.		knowingly and without duress, undue influence or
	2. If the citizen has been		compulsion) acquires the citizenship of another
	ordinarily resident out of India for		country, his Indian citizenship automatically
	six years continuously.		terminates. This provision, however, does not apply
	3. If the citizen has shown		during a war in which India is engaged.
	disloyalty to the Constitution of		Deprivation is a compulsory termination of Indian
	India.		citizenship by the Central government, if:
			• the citizen has obtained the citizenship by
	a) 1 only		fraud:
	b) 1 and 3 only		• the citizen has shown disloyalty to the
	c) 2 and 3 only		Constitution of India:
	d) 1, 2 and 3		• the citizen has unlawfully traded or
			communicated with the enemy during a war;
			$\cdot$ the citizen has, within five years after
			registration or naturalisation, been imprisoned in
			any country for two years; and
			$\cdot$ the citizen has been ordinarily resident out of
			India for seven years continuously.



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37	In order to reduce or eliminate	с	Crowding out reduces the effectiveness of any
	crowding out, expansionary fiscal		expansionary fiscal policy, whether it be an
	policy can be accompanied by		increase in government purchases, an increase in
			transfer payments, or a reduction in income taxes.
	a) An increase in government		https://economictimes.indiatimes.com/definition/
	spending		crowding-out-effect
	b) A decrease in investment		
	c) Expansionary monetary policy		
	d) Contractionary monetary policy		
38	Consider the following	с	Alluri Sitarama <b>Raju was an Indian revolutionary</b>
	statements w.r.t. Alluri Sitaram		involved in the Indian independence
	Raju:		movement.
	1. He was against the Gandhiji's		· He was born in present-day Andhra Pradesh
	Non-Cooperation Movement.		in 1897 or 1898.
	2. He asserted that India could be		• He became a sanyasi at the age of 18 and
	liberated only by the use of force.		gained a mystical aura among the hill and tribal
	3. He made astrological		peoples with his austerity, knowledge of
	predictions.		astrology and medicine, and his ability to tame
	Which of the statements given		wild animals.
	above are correct?.		• At a very young age, Raju channelled the
			discontent of the hill people in Ganjam,
	a) 2 only		Visakhapatnam, and Godavari into a highly
	b) 1 and 2 only		effective guerrilla resistance against the
	c) 1, 2 and 3		British.
	d) 1 and 3 only		• He became involved in anti-British
			activities in response to the 1882 Madras
			Forest Act, which effectively restricted the free
			movement of Adivasis (tribal communities) in
			their forest habitats and prevented them from
			practicing a traditional form of agriculture





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			<ul> <li>known as podu (shifting cultivation).</li> <li>Rising discontent towards the British led to the Rampa Rebellion/Manyam Rebellion of 1922, in which he played a major part as a leader.</li> <li>The Rampa Rebellion coincided with Mahatma Gandhi's Non-Cooperation Movement. He persuaded people to wear khadi and give up drinking.</li> <li>But at the same time, he asserted that India could be liberated only by the use of force, not non-violence.</li> <li>He was nicknamed "Manyam Veerudu" (Hero of the Jungle) by local villagers for his heroic exploits.</li> <li>In 1924, Raju was taken into police custody, tied to a tree, and shot by a public execution, effectively ending the armed rebellion.</li> </ul>
39	Which of the following	b	Macaulay introduced English as the literary and
	statements is/are correct?.		official language of India.
	1. Lord Cornwallis introduced		https://iasgoogle.com/editorial/lord-macaulay-s-
	English as the literary and official		<u>minute-1835</u>
	language of India.		
	2. Lord Macaulay put forth the		
	Downward Filtration Theory.		
	<ul> <li>(a) Only one</li> <li>(b) Only two</li> <li>(c) Both 1 and 2</li> <li>(d) Neither 1 nor 2</li> </ul>		



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40	Consider the following statements	с	https://indianexpress.com/article/lifestyle/life-
	with reference to Minamata		style/skin-bleaching-safety-tips-skincare-
	Convention:		8509896/
	1. Global Environment Facility is		Minamata Convention is an international treaty
	the financial mechanism for		signed in 2013. The convention aims to protect
	Minamata Convention.		human health and the environment from the
	2. The convention is hosted by		harmful effects of Mercury and its compounds. It
	the United Nations Environment		caters to the release of mercury emissions and its
	Programme.		releases into the environment. The convention is
	Which of the statements given		named after the Japanese City Minamata due to its
	above is/are correct?		symbolic importance as the city went through a
			devastating incident of Mercury poisoning. It is a
	(a) Only one		UN treaty under the United Nations Environment
	(b) 2 only		Programme. India is a party to the convention and
	(c) Both 1 and 2		ratified it in 2018. India has ratified Minimata
	(d) Neither 1 nor 2		Convention in 2018.
			https://minamataconvention.org/en/implementati
			<u>on/gef</u>
			Harmful products such as Hydroquinone, Kojic
			acid, and Mercury are present in many skin
			lightening products. Hydroquinone is considered as
			a primary topical ingredient for inhibiting melanin
			production because it reduces the skin's
			production of melanin which is responsible for skin
			color.
			Minamata Convention is an international treaty
			signed in 2013. The convention aims to protect the
			human health and environment from the harmful
			effects of Mercury and its compounds. It caters to
			the release of mercury emissions and its releases in
			the environment.





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Applications of Mercury:
$\cdot$ Thermometers and Barometers: Mercury"'s high
coefficient of thermal expansion and easy visibility
make it suitable for use in traditional
thermometers and barometers.
· Chemical and Mining Processes: Mercury has
been used in various chemical and mining
processes, including the production of chlorine and
mining of gold.
Electronics and Electrical Switches: Mercury-
wetted switches are used in various electrical
applications because mercury'"'s conductivity and
low resistance make it suitable for creating a
reliable electrical connection.
Sources of Mercury Pollution:
Natural Sources:
$\cdot$ Volcanic eruptions release small amounts of
mercury.
· Erosion of rocks and soil can release mercury
into water bodies.
Anthropogenic Sources:
· Artisanal and Small-Scale Gold Mining (ASGM):
ASGM is a major source of mercury pollution,
where mercury is used to extract gold from ore.
· Mercury is used to extract gold particles from
ores, creating amalgams that are later heated to
evaporate the mercury, leaving behind gold.
· Artisanal gold mining operations are responsible
for 37% of global mercury pollution.
· Industrial Processes: Various industries, such as
chlorine production, cement manufacturing, and





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 11
waste incineration, emit mercury.
$\cdot$ The cement industry is responsible for around
11% of global anthropogenic mercury emissions.
· Waste Disposal: Improper disposal of e-waste
products containing mercury, such as fluorescent
bulbs and batteries, leads to mercury leaching into
the environment.
Associated Impact:
· Methylmercury accumulates in aquatic
organisms like fish. People primarily come into
contact with methylmercury through the
consumption of fish and shellfish.
$\cdot$ This compound carries a higher risk of causing
Minamata disease, a condition characterized by
sensory impairment, tremors, and both auditory
and visual deficits.
$\cdot $ This illness was initially observed in the residents
of Minamata Bay, Japan, who consumed mercury-
contaminated fish due to industrial waste
pollution.
· Note: Methylmercury and ethyl mercury differ
significantly. While methylmercury is linked to
health issues, ethylmercury is utilized as a
preservative in certain vaccines and is not
associated with health concerns.
Way Forward
· Mercury-Removing Filters: Innovative mercury-
removal filters for industrial emissions, wastewater
treatment, and consumer products can be
designed and deployed.
$\cdot$ These filters could selectively capture and adsorb





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			mercury particles from air and water streams.
			$\cdot$ Phytoremediation: Phytoremediation, allows
			plants to absorb and accumulate mercury from
			soil, water, or sediments. These plants can then be
			harvested and safely disposed of, effectively
			removing mercury from the environment.
			· Implementing planetGOLD Program: There is a
			need for global implementation of the planetGOLD
			program, led by UNEP, which seeks to eliminate
			mercury from artisanal gold mining and create
			safer working conditions. It operates under the
			Minamata Convention on Mercury.
			$\cdot$ Funded by the Global Environment Facility, the
			program provides financial and technical support
			to help miners transition away from mercury use.
			$\cdot$ planetGOLD""s mercury-free processing plant in
			Burkina Faso serves as a model for transitioning
			away from mercury.
41	Which one of the following	а	Darwin and Wallace proposed the theory of organic
	sequences was proposed by		evolution, which is based on the following
	Darwin and Wallace for organic		sequence:
	evolution?		1. Overproduction: Organisms have the potential to
			produce more offspring than the environment can
	a)Overproduction, variations,		support. This leads to competition for limited
	constancy of population size, natural		resources.
	selection.		2. Variations: Within a population, individuals
	b) Variations, constancy of		exhibit variations in their traits. These variations
	population size, overproduction,		can be inherited from parents or arise due to
	natural selection.		random mutations.
	c)Overproduction, constancy of		3. Constancy of population size: Despite the
	population size, variations, natural		





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	selection.		overproduction of offspring, populations tend to
	d)Variations, natural selection, c)		remain relatively stable in size over time. This is
	overproduction, constancy of		due to limited resources and other factors such as
	population size.		predation, disease, and competition.
			4. Natural selection: In a population with
			variations, individuals with traits that are
			advantageous in their environment are more likely
			to survive and reproduce. This is known as natural
			selection. Over time, the frequency of advantageous
			traits increases in the population, leading to
			evolutionary change.
42	A dark room technician losing	с	https://www.vedantu.com/commerce/unemploym
	his job because fewer people use		ent-and-employment-generation
	film cameras represents		
	_		
	a) recessive unemployment		
	b) frictional unemployment		
	c) structural unemployment		
	d)regressive unemployment		
43	Consider the following	с	https://pib.gov.in/newsite/erelcontent.aspx?relid=
	statements:		110116
	1. Swadesh Sevak Home was set		World War-I & Revolutionaries
	up by G.D Kumar in Vancouver.		Onset of World War-I received a divided Indian
	2. Komagata Maru killing		response. While moderates & extremists
	happened during the First World		supported British in the war, revolutionaries
	War.		decided to utilise this opportunity.
	Which of the statements given		America
	above is/are correct?.		· G D Kumar set up Swadesh Sevak
			Home in Vancouver and launched a paper
	(a) 1 only.		in <b>Gurmukhi, Swadesh Sewak.</b>
			• United India House in Seattle was set up





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### JUNE-2024

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# (b) 2 only in 1910 by G D Kumar and Taraknath Das. (c) Both 1 and 2There was a restriction on **Indian** (d) Neither 1 nor 2 immigration into Canada in 1908. Taraknath Das, an Indian student, and one of the first leaders of Indian community in North America to start a paper (called Free **Hindustan**). He realized that while the British government was keen on Indians going to Fiji to work as a labourer for British planters, it did not want them to go to North America where they might be infected by ideas of liberty. Centre of revolutionary activity soon shifted to the US, which provided a free political atmosphere. Ghadar party It began in **1913** and conducted revolutionary activity in North America. It organized a weekly newspaper, The Ghadar with its headquarters in San Francisco. Ghadar means Revolt. On front page of each issue was a feature titled Angrezi Raj Ka Kacha Chittha or 'An Expose of British Rule.' Most powerful impact was made by poems that appeared in The Ghadar, soon collected & published as **Ghadar di Goonj** and distributed free of cost. Notable members were Lala Hardayal, Bhagwan Singh, Barkatullah, Kartar Singh, Bhai Parmanand etc. Plans of Ghadarites were encouraged by two events in 1914—Komagata Maru incident and outbreak of First World War. Komagata Maru was a ship carrying 370





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### JUNE-2024

			passengers, mainly Sikh and Punjabi Muslim
			would-be immigrants, from Singapore to
			<b>Vancouver</b> . Canadian authorities backturned
			them after two months of privation and
			uncertainty. It was believed that Canadian
			authorities were influenced by British government.
			The ship finally anchored at Calcutta in September
			1914. Inmates refused to board the Punjab-bound
			train. In the ensuing conflict with police at Budge
			Budge near Calcutta, many died.
			• Inflamed by this and with outbreak of First
			World War, Ghadar leaders decided to <b>launch a</b>
			violent attack to oust British rule in India.
			• Defence of India Act was passed in
			<b>1915</b> primarily to smash Ghadar movement.
			Europe
			Berlin Committee for Indian
			independence was established in 1915 by
			Virendra Nath Chattopadhyay and Bhupendra
			Dutta.
44	Consider the following statements	d	https://www.thehindu.com/sci-
	regarding Histamine:		tech/science/what-are-
	1. It is an amino acid derivative.		antihistamines/article68090729.ece
	2. It is a vasodilator.		A mast cell is the cell of connective tissue proper.
	3. It is released from mast cells.		Mast cells are like basophils of blood in structure
	4. It causes inflammation in the		and function. When an allergic substance enters
			into body mast cells secrete histamine. Because of
	body.		histamine a part of blood comes out and is called
	Which of the statements given		exudate which causes swelling.
	above is/are correct?		A basophil is a type of white blood cell and a type
			of granulocyte. Basophils secrete histamine,





# JUNE-2024

			serotonin, heparin, etc., and are involved in
	a) 1 only		inflammatory reactions.
	b) 1 and 2 only		
	c) 2 and 3 only		
	d) 1, 2, 3 and 4		
45	The most complex level of	a	https://www.vedantu.com/question-answer/give-
73	organization among the following	a	characteristics-of-all-phylums-under-class-11-
	is present in		biology-cbse-5f8e9240813eab67c14d614c
	is present in		
			Protozoa are unicellular, eukaryotic, heterotrophic
	a) Leech		organisms. They are either free-living or parasites.
	b) Ascaris		There are around 65000 species of protozoans
	c) Hydra		categorised in different groups. They lack a cell
	d) Plasmodium		wall. There are many different cell organelles, that
			perform various tasks performed by different
			organs in higher animals, e.g. mouth, anus,
			intestinal tract, etc. There are many protozoa, that
			cause various diseases in animals and humans,
			e.g. Plasmodium (malarial parasite), Trypanosoma
			(sleeping sickness), Trichomonas (trichomoniasis),
			etc.
46	Which of the following is/are	a	The Male Torso:
	found in Mohenjadaro?		· It is found at Harappa.
	1. Mother Goddess		· It is made up of red sandstone.
	2. Male Torso		· It is chiselled in the round.
	3. Painted Earthen Jar		$\cdot$ It is remarkable for its naturalistic pose and
			sophisticated modeling, highlighting its physical
	a) 1, 2 and 3		beauty.
	b) 2 only		• The head and arms of this figure were carved
	c) 1 & 3 only		separately and socketed into the drilled holes of the
l			





## JUNE-2024

	d) 2 & 3 only		torso.
			Mother Goddess
			The sculpture "Mother Goddess" is one of the most
			fascinating Indus Valley Civilisation figures.
			Fashioned by hand, this clay sculpture originates
			in Mohenjo-Daro, and dates back to around 2500
			BCE. It is 22cm in height, 8.5cm in width, and
			3.4cm in depth.
			The people of Harappa seemed to have worshipped
			the Mother Goddess and Shiva Pashupati. The
			Mother Goddess was also known as Shakti;
			perhaps, they believed her to be the source of all
			creation. They also worshipped the male god, Shiva
			Pashupati. He was the lord of the animals. Shiva
			was also worshipped in the form of Linga and Yoni.
			Painted Earthen Jar
			Found in Mohenjodaro, this jar is made on a
			potter's wheel with clay. The shape was
			manipulated by the pressure of the crafty fingers of
			the potter. After baking the clay model, it was
			painted with black colour. High polishing was done
			as a finishing touch. The motifs are of vegetals and
			geometric forms. Designs are simple but with a
			tendency towards abstraction.
47	"Ricardian Equivalence	а	Ricardian equivalence theory
	Proposition" is best described as		This theory was developed by David Ricardo in the
	a)taxation and borrowing are		early 19th century and later was elaborated upon
	equivalent means of financing		by Harvard professor Robert Barro. For this
	expenditure.		reason, Ricardian equivalence is also known as the
	b)wealth that can be stored in the		Barro-Ricardo equivalence proposition.
	form of money for future use		It is an economic theory that says that financing





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#### JUNE-2024

	c).a system in which the central		government spending out of current taxes or future
	bank allows the exchange rate to be		taxes (and current deficits) will have equivalent
	determined by market forces.		effects on the overall economy. Hence option (a) is
	d)exchange of commodities without		the correct answer.
	the mediation of money.		This means that attempts to stimulate an economy
			by increasing debt-financed government spending
			will not be effective because investors and
			consumers understand that the debt will
			eventually have to be paid for in the form of future
			taxes.
			The theory argues that people will save based on
			their expectation of increased future taxes to be
			levied in order to pay off the debt and that this will
			offset the increase in aggregate demand from the
			increased government spending. This also implies
			that Keynesian fiscal policy will generally be
			ineffective at boosting economic output and
			growth.
48	How many of the above	с	Article 45- Provides for early childhood care and
	provisions of the Constitution of		education below the age of six years.
	India have a bearing on		• <b>Under Schedule 11</b> of the constitution, the
	Education?.		Panchayati raj institutions have allowed 29
	1. Directive Principles of State		subjects to work in their local areas.
	Policy		Education is one of them. Similarly,
	2. Rural and Urban Local Bodies		Schedule 12 of the constitution provides for
	3. Fifth Schedule		18 subjects and education is included here
	4. Sixth Schedule		also.
	5. Seventh Schedule		
			The <b>Fifth Schedule</b> of the Indian
	a) Only four		Constitution deals with the <b>administration</b>
	~, · · · · · · · · · · · · · · · · · · ·		and management of Scheduled areas and
			1





# JUNE-2024

1.			
,	Only two		Scheduled tribes where tribal communities
c) A	ll the five		are in majority.
d) C	Only three	•	This Schedule aims to hold the state
			accountable for the <b>advancement of</b>
			tribals' educational and economic
			<b>objectives.</b> It also attempts to give them
			social justice and protect them from all
			forms of exploitation.
		•	According to the <b>Sixth</b>
			Schedule Autonomous District Councils
			(ADC) were established in four northeastern
			states, namely Assam, Meghalaya, Tripura
			and Mizoram.
		-	These councils within their respective
			districts, shall have power to make laws
			with respect to <b>education, primary and</b>
			secondary and vocational training.
		•	The <b>seventh schedule</b> of the constitution
			deals with the distribution of powers among
			states and centres via three lists i.e State
			List, Center List and Concurrent List.
		•	42nd amendment Act 1976 shifted below
			mentioned five subjects from the State list to
			Concurrent List:
			Education
			Forests
			<ul> <li>Protection of wild animals and birds</li> </ul>
			<ul> <li>Weights and measures and</li> </ul>
			<ul> <li>Administration of justice, constitution</li> </ul>
			and organisation of all courts except
			the Supreme Court and the High





## JUNE-2024

			Courts
49	Which of the following is known	с	Shale Oil
	as "Tight Oil"?	C	Shale gas is natural gas, one of several forms of
			unconventional gas (also known as methane or
	a) Coal Bed Methane		CH4).
	b) Methane Hydrates		It is trapped within shale formations with low
	c) Shale Gas		permeability, which is fine-grained sedimentary
	d) Syngas		rock which acts as its source as well as reservoir.
	, , , , ,		It is an unconventional oil produced from oil shale
			rock fragments by pyrolysis, hydrogenation, or
		-	thermal dissolution.
			These processes convert the organic matter within
			the rock into synthetic oil and gas.
			Difference from crude oil:
			The key difference between shale oil and
			conventional crude is that the former, also called
			'tight oil', is found in smaller batches, and deeper
			than conventional crude deposits.
			Its extraction requires creation of fractures in oil
			and gas rich shale to release hydrocarbons through
			a process called hydraulic fracking.
			Largest producers:
			Russia and the US are among the largest shale oil
			producers in the world, with a surge in shale oil
			production in the US having played a key role in
			turning the country from an importer of crude to a
			net exporter in 2019.
			A number of US shale exploration firms, including
			Halliburton, have faced litigation from citizens
			living in areas adjacent to shale production sites





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# JUNE-2024

			who have claimed that hydraulic fracking has		
			contributed to groundwater contamination.		
			Shale oil extraction methods:		
			Mined shale oils are transported to the processing		
			plants, heated to 5000C, and oil comes out from		
			these rocks.		
			Situ technique: Oil shale is broken by explosion		
			and Kerogen comes out like crude oil from these		
			rocks.		
50	Which of the following statements	с	Lateritic Soils		
	regarding laterite soils of India are		<ul> <li>Laterite soils are mostly the end</li> </ul>		
	correct?.		products of weathering.		
	1. They are generally red in				
	colour.		They are formed under conditions of		
	2. They are rich in nitrogen and		high temperature and heavy rainfall		
	potash.		with alternate wet and dry periods.		
	3. They are well-developed in		<ul> <li>Heavy rainfall promotes leaching</li> </ul>		
	Rajasthan and UP.		(nutrients gets washed away by		
	4. Tapioca and cashew nuts grow		water) of soil whereby lime and silica		
	well on these soils.		are leached away and a soil rich in		
			oxides of iron and aluminium		
	a) 1, 2 and 3		compounds is left behind.		
	b) 2, 3 and 4		• 'Laterite' means brick in Latin. They		
	c) 1 and 4		harden greatly on losing moisture.		
	d) 2 and 3 only		<ul> <li>Laterite soils are red in colour due</li> </ul>		
			to little clay and more gravel of red		
			sand-stones.		
			<ul> <li>Chemical composition of Laterite –</li> </ul>		
			Lateritic Soils		





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Laterite soils are rich in • bauxite or ferric oxides. • They are very poor in lime, magnesia, potash and nitrogen. Sometimes, the phosphate content may be high in the form of iron phosphate. In wetter places, there may be a higher content of humus. **Distribution of Laterite – Lateritic** Soils Laterite soils cover an area of 2.48 lakh sq km. • A continuous stretch of laterite soil is found on the **summits** of Western Ghats at 1000 to 1500 m above mean sea level, Eastern Ghats, the Rajmahal Hills, Vindhyan, Satpuras and Malwa Plateau. They also occur at lower levels and in valleys in several other parts of the country. They are well developed in south Maharashtra, parts of Karnataka etc. and are widely scattered in other regions.





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			-	
			<ul> <li>Crops in Laterite – Lateritic Soils</li> </ul>	
			<ul> <li>Laterite soils lack fertility due</li> </ul>	
			to intensive leaching.	
			<ul> <li>When manured and irrigated,</li> </ul>	
			some laterites are suitable for	
			growing plantation <b>crops like</b>	
			tea, coffee, rubber, cinchona,	
			coconut, arecanut, etc.	
			<ul> <li>In some areas, these soils</li> </ul>	
			support grazing grounds and	
			scrub forests.	
51	Consider the following statements	а	The index will assign a value between 0 and 1 to	
	w.r.t. Farmers Distress Index.		indicate the level of distress.	
	1. The index will assign a value		https://www.downtoearth.org.in/news/agriculture	
	between 0 and 10 to indicate the		/explainer-what-is-the-farmers-distress-index	
	level of distress.		<u>90439</u>	
	2. The index Is designed by NSSO.			
	3. The index is based on 21			
	questions mapped against seven			
	indicators.			
	How many of the statements			
	given above is/are correct?.			
	a) Only one			
	b) Only two			
	c) All the three			
	d) None of these			





#### JUNE-2024

52	Bhaga, Bhoga, Kara and Hiranya	с	
	refer to		
	a) handicrafts		
	b) paintings		
	c) taxes		
	d) crops		
53	With reference to the Indian	с	1. An increase in Nominal Effective Exchange
	economy, consider the following		Rate (NEER) indicates the appreciation of the
	statements:		rupee.
	1. An increase in Nominal		This statement is correct. The NEER is an index
	Effective Exchange Rate (NEER)		that measures the value of a country's currency
	indicates the appreciation of		relative to a basket of other major currencies,
	rupee.		weighted by their relative trade with the country.
	2. An increase in the Real		An increase in NEER means that the Indian rupee
	Effective Exchange Rate (REER)		has appreciated in value compared to this basket
	indicates an improvement in trade		of currencies, which implies that it takes fewer
	competitiveness.		rupees to buy the same amount of foreign
	3. An increasing trend in domestic		currency.
	inflation relative to inflation in		2. An increase in Real Effective Exchange Rate
	other countries is likely to cause		(REER) indicates an improvement in trade
	an increasing divergence between		competitiveness.
	NEER and REER.		This statement is not necessarily correct. The
	Which of the above statements are		REER adjusts the NEER for inflation differentials
	correct?		between India and its trading partners. An increase
			in REER suggests that the Indian currency has
	a) 1 and 2 only		appreciated in real terms, which could make
	b) 2 and 3 only		Indian exports more expensive and imports
	c) 1 and 3 only		cheaper, potentially reducing trade
	d) 1, 2 and 3		competitiveness. However, it is also possible that
			an increase in REER reflects higher productivity or
		1	





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			<ul> <li>quality improvements in a countriservices, which could enhance countries therefore, an increase in REER dunambiguously indicate an improcompetitiveness.</li> <li><b>3.</b> An increasing trend in dome relative to inflation in other countries to cause an increasing divergent NEER and REER.</li> <li>This statement is correct. If India</li> </ul>	mpetitiveness. oes not ovement in trade stic inflation untries is likely ice between
			higher inflation than its trading p NEER may not change much, but increase because the domestic cu	t the REER will
			value is eroding due to higher pri divergence occurs because the RI	EER is adjusted
			for inflation, while the NEER is no	ot.
54	How many of the following battles	d	Battle	Year
	was/were fought by Babur?. 1. First Battle of Panipat		First Battle of Panipat	1526
	2. Battle of Khanwa		Battle of Khanwa	1527
	<ol> <li>Battle of Chanderi</li> <li>Battle of Ghaghra</li> </ol>		Battle of Chanderi	1528
			Battle of Ghaghra	1529
	a) Only one b) Only two		Battle of Kalinjar	1531
	c) Only three		Battle of Gujarat	1535
	d) All the four		Battle of Surajgarh	1534
			Battle of Chunargarh	1538





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Battle of Chausa	1539	1
Battle of Kannauj	1540	]
Battle of Sammel	1543	\$
Battle of Kalinjar	1545	5
Battle of Machhiwara	1555	]
Battle of Sirhind	1555	]
Second Battle of Panipat	1556	1
Akbar's Military Campaigns		
Malwa	1561	1
Chunar	1561	1
Gondwana	1564	1
Merta	1562	1
Mewar	1567	
Battle of Haldighati	1576	1
Ranthambore	1569	
Kalinjar	1569	
Marwar	1570	
Jaisalmer	1570	
Bikaner	1570	
Gujarat	1572	1
Surat	1573	





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	1					
			Paatan	1573		
			Kabul	1581		
			Kashmir	1586		
			Sindh	1591		
			Orissa	1591		
			Khandesh	1591		
			Balochistan	1595		
			Kandhar	1595		
			Ahmednagar	1597		
			Asirgarh	1601		
55		d	Akbar's period, 1556 to 1605,	was the period of		
	Which of the following rulers was		great rulers. His nearest contemporary was			
	not a contemporary of Akbar?.		Elizabeth of England. Shakesp	peare was living		
			around this time. Henry IV of France, first ruler of			
	a) Elizabeth of England		the Bourbon dynasty, and Abl			
	b) Shakespeare		Persia, the strongest ruler of t			
	c) Henry IV of FranceQueen		were ruling their kingdoms du			
	d) Victoria of England		revolt of the Netherlands again	-		
			Europe that commenced durin	0		
			for about eighty years and end	led in 1648.		
56	Consider the following statements	b	The compilation and dissemin			
	regarding Balance of Payments		the prime responsibility of RB	I.		
	(BoP).		<b>Balance of Payment</b>			





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1. NRI deposits are calculated
under Capital Accounts while
Private Remittances are
calculated under Current Account.
2. The compilation and
dissemination of BoP data is the
prime responsibility of Central
Statistical Organisation.
3. If an Indian investor earns
interest or dividend in his
investment abroad, that will be
included in the current account of
India.
Which of the above statement(s)
is/are correct?.
a) 2 and 3 only
b) 1 and 3 only
c)1 and 2 only
d) 1, 2 and 3

- Balance of Payment (BoP) of a country can be defined as a systematic statement of all economic transactions of a country with the rest of the world during a specific period usually one year.
- It indicates whether the country has a **surplus or a deficit on trade**.
  - When exports exceed imports, there is a trade surplus and when imports exceed exports there is a trade deficit.

### Purposes of calculation of BoP:

- Reveals the financial and economic status of a country.
- Can be used as an indicator to determine whether the country's currency value is appreciating or depreciating.
- Helps the Government to decide on fiscal and trade policies.
- Provides important information to analyze and understand the economic dealings of a country with other countries.

## Components of BoP:

 For preparing BoP accounts, economic transactions between a country and rest of the world are grouped under - Current account, Capital account and Errors and Omissions. It also





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shows <b>changes in</b> <u>Foreign</u>
Exchange Reserves.
Current Account: It shows export
and import of <b>visibles (also called</b>
merchandise or goods - represent
trade balance) and invisibles (also
called non-merchandise).
$\cdot$ Invisibles include services, transfers and income.
<ul> <li>Capital Account: It shows a capital</li> </ul>
expenditure and income for a
country.
$\cdot$ It gives a summary of the net flow of both private
and public investment into an economy.
• External Commercial Borrowing
(ECB), Foreign Direct Investment, Foreign
Portfolio Investment, etc form a part of capital
account.
<ul> <li>Errors and Omissions: Sometimes</li> </ul>
the balance of payment does not
balance. This imbalance is shown in
the BoP as errors and omissions. It
reflects the country's inability to
record all international transactions
accurately.
<ul> <li>Changes in Foreign Exchange</li> </ul>
<b>Reserves:</b> Movements in the reserves
comprises changes in the foreign
currency assets held by the <b>Reserve</b>
Bank of India (RBI) and also
in <b>Special Drawing Rights</b>
(SDR)_balances.
• Overall the <b>BoP account can be a</b>





# JUNE-2024

			surplus or a deficit. If there is a
			deficit then it can be bridged by
			taking money from the <b>Foreign</b>
			Exchange (Forex) Account.
57	Which of these statements are	d	The darkest time of year at the North Pole is the
	correct?		Winter Solstice, approximately December 21. There
	1. At the South Pole, the sun rises		has been no sunlight or even twilight since early
	on September 21 and does not set		October. The darkness lasts until the beginning of
	until March 22, the following year.		dawn in early March.
	2. The midnight sun occurs		Equinox vs Solstice
	because the earth"s axis tilts		Equinox
	toward the sun in summer and		Equiliox
	away from the sun in winter.		Time of the year when the sun is nearest to the equ
	3. Above the Arctic Circle, the sun		plane giving equal lengths of day and night.
	never rises on the day of the		
	winter solstice.		An equinox occurs at the start of the spring and fal
	a) 1 and 2		Occurs on March 21 (Vernal equinox) and on Septe
	b) 1 and 3		(Autumnal equinox).
	c) 2 and 3		
	d) 1, 2 and 3		
58	A golden chain having 60 bells	b	Jahangir was the fourth Mughal Emperor who
	and weighing several "maunds"		ruled from 1605 until his death in 1627. He is
	was fastened between the		famous for his 'golden chain of justice'. A golden
	Shahburj of Agra fort and a stone		chain having 60 bells and weighing several
	pillar raised on the banks of river		'maunds' was fastened between the Shahburj of
	Jamuna. People seeking justice		Agra fort and a stone pillar raised on the banks of
	were required to pull this chain in		river Jamuna. People seeking justice were required
	order to put forth their		to pull this chain in order to put forth their





### JUNE-2024

	complaints or petitions to the		complaints or petitions to the King. This act speaks
	King. Who set up this?.		highly of the importance of justice during his reign.
	a)Aurangazeb		
	b)Jahangir		
	c)Akbar		
	d)Shahjahan		
59	. Consider the following	А	Additive and subtractive color mixing are two
	statements w.r.t. color perception		different ways in which colors are combined to
	by Human Eye.		create new colors.
	1. The colour white comprises		· Additive color mixing occurs when different
	seven colours.		colors of light are combined. This is the process
	2. When red, green, and blue		used in devices such as computer monitors,
	lights are mixed in equal amounts,		television screens, and stage lighting. In additive
	they produce black light.		color mixing, the primary colors are red, green, and
	Which of the statements given		blue (RGB). When these colors are combined at full
	above is/are correct?		intensity, they create white light. By adjusting the
			intensity of each primary color, a wide range of
	a) Only 1		colors can be created.
	b) Only 2		• Subtractive color mixing, on the other hand,
	c) Both 1 and 2		occurs when different colors of pigment or dye are
	d) Neither 1 nor 2		mixed together. This is the process used in
			traditional art, printing, and color mixing in
			everyday objects. The primary colors in subtractive
			color mixing are cyan, magenta, and yellow (CMY).
			When these pigments are mixed together, they
			absorb certain wavelengths of light, resulting in the
			perception of different colors. When all three
			primary colors are combined, they absorb all
			wavelengths and appear black.
			· In printing, a fourth color, black (K), is often





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			added to the CMY model to improve the
			reproduction of dark colors and to save on the use
			of colored inks. This is known as the CMYK color
			model.
			· The physics behind these processes involves
			the way light and pigments interact with each
			other and with our eyes. Additive color mixing
			involves the combination of different wavelengths
			of light, while subtractive color mixing involves the
			absorption and reflection of light by pigments.
			• A Newton'''s disc can be created by painting a
			disc with the seven different colours: violet, indigo,
			blue, green, yellow, orange and red. When the disc
			is rotated, it appears white. This explains that
			white light consists of seven colours.
			• The phenomenon due to which white light
			splits into seven colours on passing through a
			prism is called dispersion. White light is made up
			of seven bands of colors each having different
			wavelengths. Upon passing through a medium,
			each of the colors travels at different speeds and
			hence has different angles of refraction leading to
			the splitting of the light i.e. dispersion.
60	. Which of the following	d	https://www.thehindu.com/news/national/why-
	statements is/are correct w.r.t.		mdh-everest-spices-are-under-international-
	"The Spices Board"?.		scrutiny-explained/article68130961.ece
	1. It is an executive body.		The Spices Board under the Ministry of Commerce
	2. It functions under under the		and Industry, is a flagship regulatory and export
	Ministry of Food Processing		promotion agency for Indian spices.
	Industries.		The board is headquartered in Kochi.





### JUNE-2024

	Select the correct answer using		[Kochi is known by a lot of nicknames such as
	the code given below:		God""s Own Country and the Queen of the Arabian
			Sea. It has also been known as the Spice Capital of
	a) Only 1		the world, since ancient times.]
	b) Only 2		Spices Board was constituted in 1987 under Spices
	c) Both 1 and 2		Board Act 1986 with the responsibility of
	d) Neither 1 nor 2		production/development of cardamom and export
			promotion of 52 spices shown in the schedule of
			the Act.
			The Board functions an international link between
			the Indian exporters and the importers abroad and
			it has been involved in various activities which
			touch upon every segment of the spices sector.
61	"Amaterasu" seen in news refer	а	https://www.thehindu.com/sci-
	to a/an		tech/science/amaterasu-cosmic-ray-physics-
			explained/article67690711.ece
	A ) martian rock		
	b) atomic mineral		
	c) cosmic rays		
	d) variety of Pearl		
62	Consider the following	с	https://iasgoogle.com/current_affair/june-27-
	statements.		current-affairs-2023
	1. Upwelling elevates cold,		
	nutrient-rich water to the		
	euphotic zone, the upper layer of		
	the ocean.		
	2. During an El Niño event,		
	westward-blowing trade winds		
	weaken along the Equator.		
		i i	





#### JUNE-2024

Which of the abo	ve statements		
is/are true?			
a) Only 1			
b) Only 2			
c) Both 1 and 2			
d) Neither 1 nor 2			
63 Consider the follo	owing statements	с	M1 = Currency with the Public + Demand Deposits
about Narrow and	d Broad Money:		with the Banking System + 'Other' Deposits with
1. M1 includes fi	nancial assets,		RBI*
such as bonds.			=Currency with the Public + Current Deposits with
2. M2 is the mos	t liquid and		the Banking System + Demand Liabilities Portion
easiest for transa	actions.		of Savings Deposits with the Banking System +
3. M4 is the least	t liquid.		'Other' Deposits with RBI*
4. M3 is the mos	t used measure of		M2=M1+ Time Liabilities Portion of Savings
money supply.			Deposits with the Banking System + Certificates of
Which of these is	s/are true?.		Deposit issued by Banks + Term Deposits of
			residents with a contractual maturity of up to and
a) 3 only			including one year with the Banking System
b) 2 and 4 only			=Currency with the Public + Current Deposits with
c) 3 and 4 only			the Banking System + Savings Deposits with the
d) 1, 2 and 4			Banking System + Certificates of Deposits issued
			by Banks + Term Deposits of residents with a
			contractual maturity up to and including one year
			with the Banking System + 'Other' Deposits with
			RBI*.
			M3=M2+ Term Deposits of residents with a
			contractual maturity of over one year with the
			Banking System + Call/Term borrowings from
			'Non-depository' financial corporations by the
			Banking System.
			<b><u>Note</u>:</b> $*$ 'Other' deposits with RBI comprise mainly:





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			(i) deposits of quasi-government and other financial
			institutions including primary dealers, (ii) balances
			in the accounts of foreign Central banks and
			Governments, (iii) accounts of international
			agencies such as the International Monetary Fund,
			etc.
			M1 and M2 are known as narrow money while M3
			and M4 are known as broad money. These
			measures are in decreasing order of liquidity. M1 is
			most liquid and easiest for transactions whereas
			M4 is least liquid of all. M3 is the most commonly
			used measure of money supply.
64	Consider the following	b	https://indianexpress.com/article/opinion/colum
	statements w.r.t. Pro-cyclical		ns/in-a-pre-election-budget-stability-not-political-
	Fiscal Policy.		gestures-9139712/
	1. Government spending increases		
	and taxes decrease in a recession.		
	2. Pursuing a pro-cyclical fiscal		
	policy could raise macroeconomic		
	volatility.		
	Which of the statements given		
	above is/are correct?		
	a) Only 1		
	b) Only 2		
	c) Both 1 and 2		
	d) Neither 1 nor 2		
65	Which one of the following	d	Charter Act of 1853 was passed when charter act
	statements is not correct?		of 1833 timed out and had to be renewed. It was





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a) The charter act of 1793 enabled the governor general to exercise the same authority in Madras and Bombay presidencies as he did in Bengal.

b) The charter act of 1813 laid down the undoubted sovereignty of the crown in and over the possessions of the east India company.

c) The charter act of 1833 took away from the subordinate presidencies all powers of making law.

d) The charter act of 1853 included Indians in the Legislative Council. renewed but no substantial changes were made. However, this was for the first time, that this charter act, unlike other charter acts, did not fix any limit for the continuance of the administration of the company in India. The act provided that the Indian territories will remain under the Governance of the company, until the parliament otherwise directed.

The Charter Act of 1853 has some of the everlasting impression as it marked the journey of the Parliamentary system in India and became an integral part of the Indian polity and constitution in the forthcoming years.

Several issues got their peak in 1853 and the situation compelled to demand the decentralization of powers thus empowering the local Indian citizen's share in business and management. The trade and business underwent several delays, unnecessary expenditures as the control and regulating powers of dispatch were under the Court of directors. There were annexation of Sindh and Punjab territory and many other political changes took place after the act of 1833. There were certain veiled whispers and allegations on the Governor-General of India being in favour of Bengal and making certain favourable decisions for them. The above-mentioned reasons and the prevalence at that time compelled the British parliament to renew the East India Company's charter as in 1853. Two Committees were set up and based on their reports, the Charter Act 1853 was formulated.





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### JUNE-2024

Charter Act of 1853
• The Charter Act of 1853 was a significant
legislative enactment during British rule in India.
· It aimed to reform various aspects of governance
and administration in British India.
· This act introduced significant changes,
particularly in the realm of education and
legislative powers.
Features
• The Charter Act of 1853 introduced several
notable features aimed at reforming governance in
British India.
· It expanded the powers of legislative councils and
introduced a system of open competition for civil
service recruitment.
$\cdot$ The act also addressed issues related to Indian
finances and judicial administration.
$\cdot$ Understanding the features of the Charter Act of
1853 is crucial for comprehending its impact on
the administrative and legislative framework in
colonial India.
Key Provisions
Changes to the Legislative Powers:
• The executive functions were
<b>separated</b> from the Governor-legislative General's
Council for the first time.
· It created a distinct Legislative council
(known as the Indian Central Legislative
council) which ordered the addition of six new
members to the council making it 12 members
in total. The twelve members were: one
Commander-in-Chief, one Governor-General, four





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members of the Governor-General's Council, one judge of the Calcutta Supreme court, one Chief Justice of the Supreme Court at Calcutta, and four other representative members having the criteria of being company's servants with at least 10 years tenure and should be appointed by the local legislature of Bengal, Madras, North-Western Provinces, and Bombay.

• The right to veto a bill was transferred to Executive Council as it was earlier with the legislative council.

• It was during this charter that the Legislative council was considered as a distinct government body and required specialized procedures.

• The legislative matter was carried out in **public discussion** and the bills were passed to the **Select Committee** rather than to any individual member.

Changes to the Salary Provision:

• The salaries of the Boards of controls, its Secretary, and other officers would be approved by the British government and payable by the East India Company.

• The court of directors number was reduced from 24 to 18 and out of it, 6 members were to be nominated by the British Crown. Furthermore, the court of directors' powers was weakened in terms of their patronage, subjects of the high posts were brought to equal opportunities through competitive exams and thus selection was made irrespective of their caste, creed, religion, etc.

This scheme was further highlighted by the





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formation of The Macaulay Committee of 1854, constituting the Indian Civil exams sets and procedures.

• The Court of Directors was assigned with the power of forming a new Presidency, altering the state boundaries, incorporating the newly acquired state. This provision thus empowered the formation of a separate Lieutenant Governorship for Punjab, 1859.

Changes to the Law Commission Powers and Provision

• The British Crown now had the **power** 

**to appoint a Law Commission in England** as per the Charter Act 1853.

 The law commission was assigned with the powers and duty to analyse the papers, reports, drafts of the Indian Law Commission.

• The members of the Law Commission were to be elected from the Governor-General's Executive Council and for this purpose, the Council membership was extended by six members.

 The representatives in the Provinces should be civil servants for more than or at least 10 years.
 Changes to the Powers for the Presidency

• As per the Charter Act 1853, the Governor-General of **Bengal Presidency** appointment provisions were made. Until the Bengal Governorgeneral was appointed, the Court of Directors had the power to appoint a civil service candidate with 10 years of service or more as the Lieutenant-Governor of the province.





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• This empowerment of altering the existing
province boundaries and incorporation of acquired
states, to constitute a new province by the Court of
Directors was brought into effect with the creation
of Punjab into a Lieutenant-Governorship.
• This empowerment further leads to the
formation of Central Province, Assam, and Burma.
Changes to the Civil service (Open Competition)
· It laid down the foundation of civil service exams
and opened the gates of a fair competition system
for civil servants' recruitment and selection.
$\cdot$ Thus as per the provision for ICS (Indian Civil
Service), it opened the gates to Indians as well as
the service was made available to Indians as well.
• The Macaulay Committee was formed in 1854, to
serve the purpose and is known as the Committee
on Indian Civil Service.
Some of the Major Significance of the Charter Act
1853
$\cdot$ It was the Charter Act, of 1853 that separated
the legislative and executive functions of the
Governor-General's council for the first time.
• The Governor-General's Council proved to be
a basic foundation for the modern-day
Parliamentary and Government structure. The
legislative wing was a model of the British
Parliament.
· It differed from the previous Charter act of
1793, 1813, and 1833 as it allowed the East India
Company's Rule for an indefinite period, thus
could be acquired by the British Government at





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### JUNE-2024

any point.
• This act has taken over company power and
thus reduces its influence as Board of Directors,
and those will be nominated by the British Crown.
• It introduced ICS (Indian Civil Service) and
opened the gates to all Indians by appearing in
ICS.
· This act for the first time introduced the local
members from the governments of Bengal,
Bombay, Madras and North Western Provinces into
the legislative council.
Criticism or Drawbacks of the Charter Act, 1853
• The major drawback of the Charter Act 1853
is it failed to include Indians in the Legislative
Council.
· The Charter Act 1853, has not given the East
India Company the legal period of 20 years for its
governance, rather it has given the power to the
Crown Government to step in at any point of time
and take over from East India Company. This was
further taken the pace after the 1857 Revolution or
Mutiny.
Importance of Charter Act 1853
• The Charter Act of 1853 holds significant
importance in the history of British colonial rule in
India.
· It marked a turning point in administrative
reforms and governance policies in British India.
· The act's provisions influenced various aspects
of Indian society, including education,
administration, and legislative procedures.





## JUNE-2024

			· Recognizing the importance of the Charter Act of
			1853 is essential for understanding the dynamics
			of British colonialism and its impact on Indian
			governance
66	The CAFE norms seen in news	b	https://www.thehindubusinessline.com/economy
	pertain to		/major-rift-among-automobile-makers-over-
	(a) additives in beverages		calculation-of-carbon-credits-under-cafe-
	(b) vehicular emissions		norms/article67860043.ece
	(c) afforestation efforts under		
	CAMPA Fund		
	(d) issues of net neutrality		
67	"Hiroshima Action Statement for	с	G7
	Resilient Global Food Security" was		Origin
	agreed in the recent past by the		• The origin of G7 lies in the <b>oil shocks of</b>
	members of		1973 and the corresponding financial
	(a) UN		crisis.
	(b) BRICS		• In order to address the situation after oil
	(c) G7		shock, the heads of the <b>world's six leading</b>
	(d) WTO		industrial nations decided to hold a
			meeting in 1975.
			• These six nations were - <u>the US, UK,</u>
			France, Germany (West), Japan and Italy.
			• These countries were <b>joined by Canada in</b>
			<b>1976</b> and G7 came into existence.
			Current Members
			• <u>US, UK, Canada, France, Germany, Italy</u>
			and Japan
			• It can be said that the members of this
			group are the <b>most developed and the</b>
			advanced economies of the world.





## JUNE-2024

			• The European U	nion is also	
		d	<b>represented</b> within the G7.		
			https://www.thehindu.	com/opinion/editorial/soli	
			darity-for-peace-on-the-	hiroshima-meet-of-the-g-	
			7/article66881627.ece		
68	Consider the following statements:		The Hubble constant tells us how fast the universe		
	1. Hubble constant is a measure of		is expanding, which can	n be used to determine the	
	surface temperature of the stars.		age of the universe and	its history. It gets its name	
	2. "Lambda CDM" Model describes		from UChicago alum Ec	lwin Hubble, who was first	
	the reason for Energy of the Sun.		to calculate the constant	nt from his measurements	
	Which of the statements given		of stars in 1929.		
	above is/are correct?		Ajanta caves	Ellora caves	
	<pre>(a) 1 only (b) 2 only (c) Both 1 and 2 (d) Neither 1 nor 2</pre>		Ajantacavesarelocatedinthe Sahyadriranges (WesternGhats).These are aseriesofrock-cutcaveson Waghorariver nearAurangabadinMaharashtra.	It is located nearly 100 Kms away from Ajanta caves in the Sahyadri range of Maharashtra.	
			There are a total of 29 buddhist caves in Ajanta of which 4 were used as Chaitya or prayer halls while 25 were used as Viharas or residential caves	Ellora caves are a group of 100 caves at the site of which 34 caves are open to the public. 17 caves out of these 34 are themed around Hinduism, 12 caves depict the themes of Buddhist and 5 caves	





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## JUNE-2024

				are of Jain faith.
			Ajanta Caves are	Ellora has a better mix
			mostly Buddhist	of Hindu, Jain, and
			sites.	Buddhist structures.
			The caves were developed in the period between 200 B.C. to 650 A.D. <u>https://www.thehindu.</u> <u>tech/science/hubble-te</u> <u>ladder-riess-webb-telese</u>	
69	Consider the following statements	d		
	w.r.t. Ajanta and Ellora caves.		https://timesofindia.ind	diatimes.com/city/aurang
	1. Ajanta caves are Buddhist caves		<u>abad/ajanta-ellora-now</u>	-part-of-swadesh-darshan-
	while Ellora caves are multi-		scheme/articleshow/10	07475542.cms
	religious caves.		https://timesofindia.ind	diatimes.com/travel/desti
	2. Ajanta is mostly about beautiful		nations/explore-the-cay	<u>ves-of-ajanta-and-</u>
	paintings while Ellora is all about		ellora/articleshow/3796	<u>61004.cms</u>
	sculpture.			
	3. The flying apsara and dying			
	princess are the major sculptures in			
	Ellora.			
	4. Famous carpenter's cave is in			
	Ajanta.			
	Which of the statements given			
	above are correct?			
	(a) 1 and 3 only			
	(b) 1 only			
	(c) 1 and 2 only			
	(d) 1 and 4 only			



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## JUNE-2024

70	<ol> <li>Archaea</li> <li>Rice fields</li> <li>Discarded household waste</li> <li>Oceanic sediments</li> <li>How many of the above release methane?</li> <li>(a) Only one</li> </ol>	a	https://www.thehindu.com/sci-tech/science/study-says-microbes-not-fossil-fuels-produced-most-new-methane/article68124627.eceDiscarded household waste also releases largequantities of methane when it decomposes, if leftto rot in landfills.
	<ul><li>(b) Only two</li><li>(c) Only three</li><li>(d) All the four</li></ul>		
71	Consider the following river valleys. <ol> <li>Damodar</li> <li>Godavari</li> <li>Mahanadi</li> <li>Sone</li> </ol> <li>How many of these have Coal <ul> <li>reserves in India?</li> </ul> </li> <li>(a) Only one</li> <li>(b) Only two</li> <li>(c) Only three</li> <li>(d) All the four</li>	D	<ul> <li>Over 97 per cent of coal reserves occur in the valleys of Damodar, Sone, Mahanadi and Godavari. They lie in the Jharkhand-Bengal coal belt and the important coal fields in this region are Raniganj, Jharia, Bokaro, Giridih, and Karanpura.</li> <li>Jharkhand has the first rank in coal reserves and its production.</li> <li>Most of the coalfields in the state of Jharkhand are located in a narrow belt running in the eastwest direction almost along 24 degrees north latitude from the Gondwana period.</li> <li>The main coal mining centres of the state are Auranga, Bokaro, Dhanbad, Jharia, Giridh, Karanpur, Ramgarh and Hutar.</li> <li>Jharia coalfield is one of the oldest and richest coal fields of India.</li> <li>It lies south of Dhanbad and stores the best of metallurgical coal (bituminous) in the country.</li> </ul>
72	With reference to the Gross	a	https://iasgoogle.com/n/explain-the-difference-





### JUNE-2024

	Domestic Product (GDP) of an		between-computing-methodology-of-indias-gross-
	economy, consider the following		domestic-product-gdp-before-the-year-2015-and-
	statements:		after-the-year-2015
	1. Since 2015, India has been		
	calculating the GDP at the basic		
	prices, rather than at the market		
	prices.		
	2. The GDP at the basic prices is		
	derived by deducting the GDP at the		
	market prices with net of product		
	taxes and subsidies.		
	Which of the statements given		
	above is/are incorrect?		
	(a) 1 only		
	(b) 2 only		
	(c) Both 1 and 2		
	(d) Neither 1 nor 2		
73	The following activities could be	b	All the options given above are included under
	possibly used to reduce global		Climate engineering, also referred to as geo-
	warming.		engineering It is the deliberate and large-scale
	1. Using giant mirrors in space		intervention in the Earth's climatic system with
	2. Use of bio-char		the aim of reducing global warming: -
	3. Increasing the amount of iron in		$\checkmark$ Use of giant mirrors in space to reflect the
	the ocean.		sunlight so as to reduce the warming of earth.
	(a) 1 and 2 only		$\checkmark$ Aerosols in space also reflect the incoming
	(b) 1, 2 and 3		sunlight and thus reduce the warming of
	(c) 1 only		earth.
	(d) 1 and 3 only		$\checkmark$ Biochar is essentially charcoal made through
			pyrolysis of biomass and then burying it mixed
			with the soil. With regard to long-term carbon
			storage potential, biochar can work on a large





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## JUNE-2024

			<ul> <li>scale with, in most cases, no negative soil side effects, but increase its fertility. Some estimates show biochar having the potential to sequester one billion tons of CO₂ each year.</li> <li>✓ Fertilizing the oceans with iron to stimulate phytoplankton blooms to absorb carbon dioxide from the atmosphere and export carbon to the deep sea is another possible option.</li> <li>However, all these steps are still contested and yet remain a possible option to be taken up on a large scale.</li> </ul>
74	"Dirty Dozen" to refer to Persistent Organic Pollutants was coined by (a) IUCN (b) WWF (c) UNEP (d) GEF	с	These 12 chemicals include 8 pesticides (Aldrin, Chlordane, DDT, Dieldrin, Endrin, Heptachlor, Mirex and Toxaphene), two industrial chemicals (Polychlorinated biphenyls and hexachlorobenzene) and 2 unintended by products- dioxins and furans. <u>https://www.unep.org/cep/persistent-organic- pollutants-pops-and-pesticides</u>
75	WhichoneofthefollowingstatementsdoesnotapplytothesystemofSubsidiaryAllianceintroduced byLordWellesley?(a)Tomaintainalargestandingarmy at other's expense(a)TokeepIndiasafefromNapoleonic danger(c)Tosecurea fixedincomefortheCompany(d)ToestablishBritishparamountcy over the Indian States	С	• The Company forced the states into a "subsidiary alliance". According to the terms of this alliance, Indian rulers were not allowed to have their independent armed forces. They were to be protected by the Company, but had to pay for the "subsidiary forces" that the Company was supposed to maintain for the purpose of this protection. If the Indian rulers failed to make the payment, then part of their territory was taken away as penalty.





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• Napoleonic invasion of Egypt in the summer of 1798 offered Wellesly a useful tool to soften London's resistance to expansion, although he never believed for a moment that there was any danger of a French invasion of British India either over land from Egypt or a naval attack round the Cape of Good Hope. However, to assuage London's concerns he evolved the policy of 'Subsidiary Alliance', which would only establish control over the internal affairs of an Indian state, without incurring any direct imperial liability. • There was no component of fixed income under this system. Subsidiary Alliance Under the Subsidiary Alliance system, the Indian ruler who is in question would be protected against any external attacks. In response to it, the rulers should: Post the company army in the • capital of their state. • Provide capital or territory for the company for maintenance of the troops. Expulsion of other Europeans from the state, whether they were employed in the army or civil service.





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•	A European official is to
	kept as a "resident" of t
	capital of the state. Th
	meant, no dire
	correspondence is possil
	with other states, without t
	resident's approval.
Chronol	logy of States under Subsidia
lliance	
States	Years
Hydera	bad 1798
Mysore	1799
Mysore Tanjore	
e e	e 1799
Tanjore	e 1799 1801
Tanjore Awadh	e 1799 1801 a 1802
Tanjore Awadh Peshwa	e 1799 1801 a 1802 has)
Tanjore Awadh Peshwa (Marath	e 1799 1801 a 1802 has) a 1803
Tanjore Awadh Peshwa (Marath Scindia	e 1799 1801 a 1802 has) a 1803 has)
Tanjore Awadh Peshwa (Marath Scindia (Marath	e 1799 1801 a 1802 has) a 1803 has) a 1803 has) a 1803

- The initiation of the subsidiary alliance system was done by Lord Wellesley but introduced by the French Governor-General Dupleix.
- While entering into a subsidiary alliance with the British, the Indian rulers had to do away with their armed forces and accept the British





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forces in their territor • He also had to pay	y for the
maintenance of the	
army and if failed to	
payments, a portion	
territory would be ta	-
and given to the Britis	
• In favor, the Britis	
protect the Indian sta	-
any form of foreign	attack or
any internal revolt.	
The British promis	
interference in the	
affairs of Indian st	ates, but
this was hardly kept.	
Indian states were no	
to enter alliances	-
other foreign power.	
also not employ a	•
foreign nationals ot	
Englishmen at his ser	
Indian states were no	
to enter any	political
connection with as	0
Indian state with	
permission of the Brit	
• The control and	•
Indian rulers were h	
concerning foreign at	
the military. The Inc	
became the	British
"protectorate".	





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#### Effects of Subsidiary Alliance System

Due to the imposition of the subsidiary alliances. the Indian rulers were disbanded and many people were rendered unemployed. Many of the Indian states have lost independence and most of the Indian parts subcontinent were coming under the British sway. The first one to accept the subsidiary alliance was the Nizam of Hyderabad 1798. Lord in Clive introduced the subsidiary alliance in Oudh and the subsequent Treaty of Allahabad was signed; where the British promised Oudh territory from enemies like the Marathas.

#### Impact of Subsidiary Alliance System

- In case of failure of the ruler to make the payment, a portion of his territory was taken and ceded to the British, in the name of maintaining the troops.
- Subsidiary alliances acted as "Trojan horse tactics" in case of building the empire; which disarmed the Indian rulers and placed them under the protection of the British.
- The Governor-General placed a proxy in every Indian state which accepted a subsidiary





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alliance.
• It helped the company to
maintain a large standing army
at the expense of Indian
princes.
• It gave the control of strategic
and key positions in India and
Britishers wielded considerable
influence on the internal
affairs of the Indian state. It
also reduced the threat from
the French army.
Various stages of the Subsidiary
Alliance System
• In the foremost stage of the
subsidiary alliance, the
English asked for a fixed army
from the native rulers in
exchange for a fixed sum of
money.
• Next stage, the English keep a
permanent military force in the
states of natives to assist the
allies in exchange for an
annual sum of money.
• In the third stage, the English
asked not only to maintain a
fixed subsidiary force but also
to keep the force within the
boundaries of the allies.
• In the final stage, a fixed and
permanent force was kept





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within the territories of their allies, which was started by Lord Wellesley.

## Subsidiary Alliance System Impacts Nizam of Hyderabad

The Nizam of Hyderabad ties were broken with the French in 1798 and allying with the Marathas was made illegal if permission from the British was not sought. The Nizam was the first one to sign the contract of a Subsidiary Alliance.

## Nawab of Awadh

Mysore became the second state under a subsidiary alliance in the year 1799 and in 1801, Nawab of Awadh was forced to join the Subsidiary Alliance policy.

#### Peshwa Baji Rao II

Peshwa Baji Rao II used the subsidiary alliances system to subdue his realm and by 1803 many Maratha states agreed to the policy like that of Scindia and Bhosle. Even the last of the confederation, the Holkars, also agreed on the requirements of the policy.

### **Treaty of Allahabad**

Treaty was adopted by Lord Clive in Oudh and the Treaty of Allahabad was formed, in which the British committed to protecting the Oudh area from adversaries. Gorakhpur, Rohilkand, and Doab were also forcibly given the





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maintenance of troops by the company. Advantages of the Subsidiary Alliance System on the Britishers

- There were many advantages of the subsidiary alliance with the Britishers. Some of the benefits are mentioned below:
- 2. The French would no longer be employed in the courts of the native rulers, which was a complete advantage for the Britishers; as their influence was wiped out.
- 3. There was a bridge created between the native states, as most of the things were controlled by the Britishers under the subsidiary alliance policy.
- 4. The area of influence of the Britishers was expanded and the natives became entirely dependent on the Britishers due to the presence of British forces in their states. They were reduced to being the British "protectorate" under the policy of subsidiary alliances.
- 5. Britishers had the plus point of maintaining a large military force at the expense of native





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rulers and the territories of the native rulers would be utilized in an optimum way by the Britishers. 6. Maintenance of the subsidiary alliance policy was expensive hence heavy financial and pressure was felt bv the natives; because of this natives had to surrender most of their territories; which helped to expand their hold in the country. **Disadvantages of Subsidiary Alliance** System on the Native Rulers • The subsidiary alliance came to be a big disadvantage for the native rulers. This can be pointed out from the following: • They slowly lost most of the fertile lands and important locations to that the British. • Financial pressure was huge from the subsidiary alliance which pushed poverty, people to live in for maintaining the army felt directly on the people. • According to the policy, Britishers couldn't interfere in the policies of the native rulers; however in reality they often interfered in every state matter. • The position and prestige of the rulers





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		<ul> <li>masses whom they governed and this resulted in the loss of their capacity and also personality to rule these states.</li> <li>Subjects of the state were also no longer in control of the matters and couldn't dethrone incompetent rulers because the British protected the allied rulers against internal and</li> </ul>
		external forces.
<ul> <li>76</li> <li>1. It studies the relationship between economic development and population growth.</li> <li>2. It can be used to describe and predict the future population of an area.</li> <li>Which of the above is/are incorrect w.r.t. Demographic Transition Theory?.</li> <li>(a) Only 1</li> <li>(b) Only 2</li> <li>(c) Both 1 and 2</li> <li>(d) Neither 1 nor 2</li> </ul>	C	https://www.thehindu.com/opinion/lead/charti ng-a-path-for-the-population- committee/article67825927.ece#:~:text=With%20 the%20TFR%20projected%20to,of%20the%20wor king%2Dage%20population. Demographic transition theory can be used to describe and predict the future population of any area. The theory tells us that population of any region changes from high births and high deaths to low births and low deaths as society progresses from rural agrarian and illiterate to urban industrial and literate society. These changes occur in stages which are collectively known as the demographic cycle. • Demographic transition is a term, first used by Warren S. Thompson (1929), and later on by Frank W. Notestein (1945), referring to a historical process of change that accounts for the trends in births, deaths, and population growth that occurred in today's industrialized societies,





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	especially European societies. This process
	of demographic change began for the most
	part in the later 18th century.
	• The demographic transition should not be
	regarded as a 'law of population growth but
	as a generalized description of the
	evolutionary process. In simple terms, it is
	a theory that attempts to specify general
	laws by which human populations change
	in size and structure during
	industrialization. It is frequently accepted
	as a useful tool in describing the
	demographic history of a country.
	• The theory postulates a particular pattern
	of demographic change from high fertility
	and high mortality to low fertility and low
	mortality when society progresses from a
	largely rural agrarian and illiterate society
	to a dominant urban, industrial, literate
	and modern society.
	• The model has four stages:
	$\circ$ pre-industrial,
	$\circ$ urbanizing/industrializing,
	$\circ$ mature industrial, and
	$\circ$ post-industrial.
	• The theory of demographic transition deals
	with the transition from high to low birth
	rates and death rates.
	These stages of demographic transition can
	be explained with the help of diagram 3
	given below:
	• Stage I is characterised by a high birth





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			rate, death rate, and low rate of
			population growth.
			• The first stage of demographic
			transition is characterized by high
			birth rates and high death rates.
			• The first stage of demographic
			transition was experienced in India,
			during the period of 1891-1921.
			• Stage II is characterised by a high and
			stationary birth rate, rapidly declining
			death rate, and very rapid increase in
			population.
			• India entered Stage II after 1921.
			• Stage III is characterised by a falling
			birth rate, low and stationary death rate,
			and a rapidly rising population.
			• Stage IV is characterised by a low birth rate
			and low death rate with a stationary
			population at a low level.
77	Which one of the following	a	Indira Gandhi Canal originated from Harike
	statements is not true?.		barrage at Sultanpur on Sutlej but Ghaggar is a
	(a) Ghaggar is a tributary of river		tributary of river Saraswati, which ends in the
	Saraswati, which ends in the Thar		Thar desert.
	desert.		Damodar is an east-flowing river with a rift valley
	(b) Damodar river has a rift valley		due to down warping. A down warp denotes a
	due to down warping.		segment of the earth's crust that is broadly bent
	(c) Nizam Sagar is situated on the		downward.
	Manjra River.		The Narmada, the biggest west streaming
	(d) Manjra River is a tributary of the		waterway of the Peninsula, ascends close to the
	Krishna.		Amarkantak scope of mountains in Madhya
			Pradesh.





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## JUNE-2024

		Nizam Sagar is the oldest dam in the state of
		Telangana, situated on the Manjra River. Manjira
		River is a tributary of the Godavari River, between
		Achampet and BanjePally villages of the
		Kamareddy district in Telangana, India. It is
		located at about 144 km (89 mi) north-west of
		Hyderabad.
		The Painganga River is the central stream of the
		Buldhana area, Hingoli region, Nanded locale,
		Yavatmal region, Chandrapur region, and Washim
		region in the Maharashtra state in India.
78	Consider the following statemenats:	Mesosphere: This is the third layer of the
	1. Almost all the weather phenom	erætmosphere. It lies above the stratosphere. It
	like rainfall, fog and hailstorm oc	curxtends up to a height of 80 km. Meteorites burn
	in Troposphere.	up in this layer on entering from the space.
	2. Meteorites burn up in Mesosph	$\mathbf{w}$ eather Phenomena in the Troposphere
	on entering from the space.	The troposphere is the lowest layer of the Earth's
	Which of these statements	a <b>æ</b> tmosphere, extending from the Earth's surface
	correct?	up to an average height of about 7-20 kilometers
	(a) 1 and 2 are correct	(4-12 miles). It is the layer in which weather
	(b) Only 1 is correct	phenomena occur. Here is a detailed explanation
	(c) Only 2 is correct	of the weather phenomena that occur in the
	(d) None is correct	troposphere:
		1. Rainfall
		Rainfall is a common weather phenomenon that
		occurs in the troposphere. It is the result of the
		condensation of water vapor in the air, which
		forms clouds. When the water droplets in the
		clouds become too large to be suspended in the
		air, they fall to the ground as precipitation, which
		can be in the form of rain, snow, sleet, or hail.





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### JUNE-2024

			<ul> <li>2. Fog</li> <li>Fog is another weather phenomenon that occurs in the troposphere. It is a cloud that forms near the ground when the air is cooled to its dew point, causing the water vapor in the air to condense into water droplets. Fog reduces visibility and can be formed by various processes such as radiation fog, advection fog, and upslope fog.</li> <li>3. Hailstorm</li> <li>ailstorms are severe weather events that can occur in the troposphere. They are characterized by the formation of large hailstones, which are balls of ice that can range in size from small pebbles to golf balls or even larger. Hailstones are formed when updrafts in thunderstorms carry raindrops upward into extremely cold areas of the atmosphere, where they freeze and accumulate layers of ice. Eventually, the hailstones become too heavy for the updrafts to support and fall to</li> </ul>
79	Which of the following is correct definition of Biosphere reserves?. (a) Biosphere Reserves are areas of	a	the ground during a hailstorm.
	terrestrial and coastal ecosystems		
	some of which are internationally		
	recognized within the framework of		
	the Man and the Biosphere		
	Programme of UNESCO.		
	(b) Biosphere Reserves are areas of		
	terrestrial and coastal ecosystems		
·			





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#### JUNE-2024

	some of which are internationally		
	recognized within the framework of		
	the Man and the Biosphere		
	Programme of UNEP.		
	(c) Biosphere Reserves are areas of		
	terrestrial and coastal ecosystems		
	some of which are internationally		
	recognized within the framework of		
	the Man and the Biosphere		
	Programme of UNDP.		
	(d) Biosphere Reserves are areas of		
	terrestrial and coastal ecosystems		
	some of which are internationally		
	recognized within the framework of		
	the Man and the Biosphere		
	Programme of FAO.		
80	Consider the following statements	а	The formal proclamation of the Swadeshi
	w.r.t. Swadeshi movement:		movement was made on August 7, 1905 at a
	1. It was initiated by the moderates,		meeting held at the Calcutta Town Hall. Leaders
	but was taken over by the		like Surendranath Banerjee, Ananda Mohan Bose,
	revolutionary nationalists at a later		K. K. Mitra. Prithwischadra Ray attempted to
	stage.		bring the people of Bengal through addressing a
	2. It was marked by the mass		huge gathering. Soon the movement spread to
	mobilization through labour strikes.		other parts of the country; in Pune and Bombay
	3. It promoted Atma Shakti.		under Tilak, in Punjab under Lala Lajpat Rai and
	Which of the statements given		Ajit Singh, in Delhi under Syed Haider Raza and
	above are correct?		in Madras under Chaidamabaram Pillai.
	(a) 1, 2 and 3		The Swadeshi Movement introduced the concept
	(b) 1 only		of boycotting foreign goods, which aimed to hit the
	(c) 1 and 2 only		british economically. it became a means for
	(d) 3 only		indians to assert their economic independence





## JUNE-2024

			and protest against british policies. the movement
			also emphasized the importance of national
			education and enterprises, promoting self-rule
			(swaraj) and self-assurance (atma shakti).
81		a	Fluorinated greenhouse gases (F-gases) highly
	What is/are true about "F-gases"		contribute to global warming. Their warming
	that are seen in news sometimes?.		impact is often thousands of times higher than
	(a) They are powerful greenhouse		that of carbon dioxide (CO <sub>2</sub> ). Initially introduced to
	gases.		replace ozone-depleting substances (ODS), F-
	(b) They are not included in the		gases were found to trap heat from the sun and
	basket of gases controlled by the		thus make the planet warm up faster.
	Kyoto Protocol, as they occur		Hydrofluorocarbons (HFCs), Perfluorocarbons
	naturally in the atmosphere.		(PFCs) and Sulphur Hexafluoride (SF $_6$ ) are
	(c) Both (a) & (b)		collectively known as fluorinated greenhouse
	(d) Neither (a) nor (b)		gases.
82	With reference to the President's	а	• President's Rule :
	rule, consider the following		<ul> <li>Grounds of Imposition :</li> </ul>
	statements:		Article
	1. It is imposed under Article 365 of		<b>356 empowers</b> the <b>President</b>
	the Indian Constitution.		to issue a proclamation if he
	2. A proclamation imposing		is satisfied that a situation
	President's Rule must be approved		has arisen in which <b>the</b>
	by both the Houses of Parliament		government of a state
	within 30 days from the date of its		cannot be carried on in
	issue.		accordance with the
	Which of the statements given		provisions of the
	above is/are correct?		<b>Constitution</b> . Notably, the
	(a) 1 only		president can act either on a
	(b) 2 only		report of the governor of the
	(c) Both 1 and 2		state or otherwise too (i.e.,
	(d) Neither 1 nor 2		even without the governor's





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### JUNE-2024

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na	Jasi		AS	.co	

report).
Article 365 says that
whenever a <b>state fails to</b>
comply with or to give
effect to any direction from
the Centre, it will be lawful
for the president to hold that
a situation has arisen in
which the government of the
state cannot be carried on in
accordance with the
provisions of the Constitution.
<ul> <li>Parliamentary Approval and</li> </ul>
Duration :
A proclamation
imposing <b>President's Rule</b>
must be approved by both
the Houses of
Parliament within two
months from the date of its
issue. Hence, Statement 2 is
not correct.
However, if the proclamation
of President's Rule is issued at
a time when the Lok Sabha
has been dissolved or the
dissolution of the Lok Sabha
takes place during the period
of two months without
approving the proclamation,
then the proclamation
survives until 30 days from





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maximi	ım period of three
	ith the <b>approval of</b>
	liament, every six
months	· · ·
• Consequences	of President's Rule :
• S/He ca	n <b>take up the</b>
function	ns of the state
governr	nent and powers
vested in	n the governor or any
other ex	ecutive authority in
the state	2.
• S/He ca	n declare that
the <b>pow</b>	ers of the state
	ure are to be
legislat	
	ed by the Parliament.
exercise	<b>ed by the Parliament</b> . In take all other
exercise • S/He ca	•
• S/He ca necessar	n take all other
exercise S/He ca necessar suspens	n take all other ry steps including the
exercise S/He can necessar suspens constitu	in take all other ry steps including the sion of the
exercise • S/He ca necessar suspens constitut relating	in take all other ry steps including the sion of the tional provisions
exercise • S/He ca necessar suspens constitut relating	In take all other ry steps including the sion of the tional provisions to anybody or ty in the state.





## JUNE-2024

			dissolution, fresh elections are held for	
			constituting a new legislative assembly in	
			the state.	
83	For the first time the draft of the Indian Constitution was framed by	d	First draft of the Indian constitution was prepared by <b>B N Rau</b> .	
	(a) Dr. BR Ambedkar		• Constituent Assembly had appointed <b>22</b>	
	(b) Jawaharlal Nehru		<b>committees</b> and assigned different issues	
	(c) KM Munshi		to deal with.	
	(d) BN Rau		• These committees submitted their reports	
			between April and August 1947.	
			• Then based on these reports <b>BN Rau, the</b>	
			constitutional advisor to the	
			constituent assembly drafted the initial	
			draft of the Indian constitution in October	
			1947.	
			• That draft contained <b>240 clauses and 13</b>	
			schedules.	
			Then this draft was forwarded to the Drafting	
			Committee for further procedure.	
84	Which of the following is/are true ?.	с	https://www.deccanherald.com/india/arunachal-	
	(a) The Buguns are a major tribe		pradesh/arunachal-tribe-donates-land-for-	
	living near Eaglenest Wildlife		critically-endangered-songbird-bugun-liocichla-	
	Sanctuary.		<u>2940635</u>	
	(b) Eaglenest Wildlife Sanctuary is			
	in Arunachal Pradesh.			
	(c) Both (a) and (b)			
	(d) Neither (a) nor (b)			
85	Which of the following is	a	Seljuk architecture is characterized by its use of	
	characterized by a beehive shaped		stone and brick, its elaborate geometric and	
	curvilinear tower made up of layer		vegetal decoration, and its towering minarets.	





## JUNE-2024

### RajasirIAS.com

upon layer of architectural elements and a cruciform ground plan?. (a) Nagara style of temple architecture (b) Dravidian style of temple architecture (c) Vesara style of temple architecture (d) Seljuq style of temple architecture

Khilji Bas ruled from 1290 AD to 1320 AD and established the Saljuk style of architecture. The specialty of the construction of this period is the use of red sandstone. Along with this, the arched style gained prominence in this period. Seljuq architectural tradition is noticed in 1. The Alai Darwaza in the Qutub complex 2. Jamat Khana Masjid at Nizamuddin.

Aspect	Nagara	Dravidian	
Region	Northern India	Southern India	
Vimana	Curvilinear	Rectangular	
(Tower)	(Shikhara)	(Gopuram)	
Shape			
Entrance	Generally single	Multiple	
	entrance on the	entrances,	
	east side	often elaborate	
		and decorated	
Mandapa	Typically two	Typically larger	
(Pillared	types: Ardha	and more	
Hall)	Mandapa (front)	elaborate with	
	and Maha	multiple halls	
	Mandapa (main		
	hall)		
Material	Often built with	Usually	
	sandstone or	constructed	
	brick	with granite or	
		other local	
		stone	
Garbhagrih	Smaller, usually	Generally	
a (Inner	square or circular	larger and	
Sanctum)		rectangular	
Decoration	Complex carvings	Elaborate	





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	and couldtures on	sculptures and		
	and sculptures on	-		
	outer walls	carvings		
		showing deities		
		and		
		mythological		
		scenes		
Influence	Influenced by	Influenced by		
	Vedic and Indo-	Dravidian and		
	Aryan	Tamil		
	architecture	architecture		
Examples	Kandariya	Brihadeeswara		
	Mahadeva Temple	Temple in		
	in Khajuraho,	Thanjavur,		
	Somnath Temple	Meenakshi		
	in Gujarat	Temple in		
		Madurai		
Vesara is a co	mbination of Nagara	and Dravidian		
style of temple	e architecture styles.	The term Vesara		
is believed to have been derived from the Sanskrit				
word <b>vishra</b> m	neaning an area to tal	ke a long walk.		
Many historia:	n agree that the Vesa	ra style		
originated in t	he what is <b>today Ka</b>	rnataka.		
The trend was	started by the <b>Chalu</b>	ıkyas of		
Badami (500-	<b>753AD</b> ) who built ter	nples in a style		
that was esser	ntially a mixture of th	e Nagara and		
the Dravida st	yles, further refined l	by		
the Rashtraku	utas of Manyakheta	(750- 983AD)		
in Ellora, Cha	alukyas of Kalyani (9	983-1195		
AD) in Lakkur	ndi, Dambal, Gadag	etc. and		
epitomized by	the Hoysalas (1000-	1330 AD)		
The Hoysalas	The Hoysalas temples at <b>Belur, Halebidu and</b>			
<b>Somnathpura</b> are prime examples of this style.				





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<u>Unique features</u> of Vesara style of temple
architecture
• <b>Ornamentation</b> : In case of
ornamentation of temple walls and
pillars, Chalukyan temple shows
indigenous quality.
• Transformation of Dravida tower: The
Chalukyan builders modified the Dravida
towers by minimizing the height of each
storey and arranging them in descending
order of height from base to top with
much ornamentation in each storey.
Transformation of Nagara tower:
Instead of inclined storey here
modification is seen in the vertical shape
of the tower
• Two special features of Chalukya
temples – Mantapa and Pillars:
1. <b>Mantapa</b> : The mantapa has two
types of roof – domical ceilings (the
dome like ceilings standing on four
pillars are very attractive) or
Square ceilings (these are
vigorously ornamented with
mythological pictures).
2. <b>Pillars</b> : the miniature decorative
pillars of Chalukya temples stands
with its own artistic value.
• Famous temples built with this style
include: Kallesvara temple, Kukkanur;
Ramalingesvara temple,
Gudur; Mahadeva temple,





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Ittagi; Kasivisvesvara temple, Lakkundi
(and several other temples at
Lakkundi); Brahmadeva temple, Savadi –
notable for being fully
stellate; Mallikarjuna temple, Sudi (and
Joda-kalasha temple)
Influence of Nagara and Dravidian style of
temple architecture on the style of Vesara
• The plan of shrine, subsidiary shrine,
panchayatan style bears similarity to
Nagara School.
• The plan of vestibule joining the sanctum
to mantapa bears resemblance to
Odishan temples.
• The most of the temple pillars in
Karnataka region bears similarity
to <b>sekhari and bhumija type of pillars</b>
in northern India.
• The stepped diamond plan that is a plan
of design arrangement as seen
in Chalukya temples is from northern
region.
• The most of the temples in kalyani
portrays Nagara articulation projecting
stepped diamond or stellate plan.
• The Dravida influence is mainly visible
in vimana of the Chalukya temples in
first part of the Chalukya rule
• Miniature decorative towers and
ornamentation of walls in Chalukya
temples show combination of both
Nagara and Dravida style.
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Famous temples built during the reign of
several empires in South India
Chalukyan architecture
• Their architecture consisted of admixture
of Nagara and Dravidian styles.
• Temples built during this time can be
found in- Aihole, Badami and Pattadakal
• Temples built during their time period do
not have a covered ambulatory path
• The Virupaksha
temple at Pattadakal built in imitation
of Kailashnath temple is the jewel of
Chalukyan architecture
• The <b>Rameshwaram</b> temple
at <b>Ellora</b> built in 7 <sup>th</sup> century was also
built during the Chalukyan time period
• Lad Khan temple and Durga temple at
Aihole are other noteworthy monuments
built during this time period
Rashtrakuta architecture
• They were the successors of the
Chalukyas
• Their temples were built mostly imitating
the Chalukyan style
• The Kailas temple at Ellora, built
during the time of Krishna II is the
representative form of architecture of the
empire
• The Navalinga Temples in Kukkanur is
another temple built during this period
Hoysala temple architecture
• Kesava temple at Belur built during the





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<ul> <li>time of Vishnuvardhana to commemorate his victory over the Cholas is a representative art of this period</li> <li>In this temple, there are multiple shrines grouped around a central pillared hall and laid out in the shape of an intricately-designed star</li> <li>Such an arrangement could be found in temples during this time in Halebid, Somnathpur and elsewhere</li> <li>Hoysaleswara temple dedicated to Lord Shiva is another famous temple built during this period</li> <li>Vijayanagara architecture <ul> <li>It is a vibrant combination of the Chalukya, Hoysala, Pandya, and Chola styles</li> <li>Local hard granite was the building material of choice, as it had been for the Badami Chalukyas.</li> <li>Vijayanagar temples are characterized by ornate pillared halls and rayagopurams, or monumental towers adorned with life-sized figures of gods and goddesses that stand at the entrance of the temple.</li> <li>Vijayanagar temples are also known for their carved pillars, which depict charging horses, figures from Hindu mythology, and yali (hippogriphs)</li> <li>Some of the larger temples are dedicated to a male deity, with a separate shrine intended for the worship of his female</li> </ul> </li> </ul>	
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<ul> <li>or monumental towers adorned with life-sized figures of gods and goddesses that stand at the entrance of the temple.</li> <li>Vijayanagar temples are also known for their carved pillars , which depict charging horses, figures from Hindu mythology, and yali (hippogriphs)</li> <li>Some of the larger temples are dedicated to a male deity, with a separate shrine</li> </ul>	• Vijayanagar temples are characterized by
<ul> <li>sized figures of gods and goddesses that stand at the entrance of the temple.</li> <li>Vijayanagar temples are also known for their carved pillars , which depict charging horses, figures from Hindu mythology, and yali (hippogriphs)</li> <li>Some of the larger temples are dedicated to a male deity, with a separate shrine</li> </ul>	ornate pillared halls and rayagopurams,
<ul> <li>stand at the entrance of the temple.</li> <li>Vijayanagar temples are also known for their carved pillars , which depict charging horses, figures from Hindu mythology, and yali (hippogriphs)</li> <li>Some of the larger temples are dedicated to a male deity, with a separate shrine</li> </ul>	or monumental towers adorned with life-
<ul> <li>Vijayanagar temples are also known for their carved pillars , which depict charging horses, figures from Hindu mythology, and yali (hippogriphs)</li> <li>Some of the larger temples are dedicated to a male deity, with a separate shrine</li> </ul>	sized figures of gods and goddesses that
<ul> <li>their carved pillars , which depict charging horses, figures from Hindu mythology, and yali (hippogriphs)</li> <li>Some of the larger temples are dedicated to a male deity, with a separate shrine</li> </ul>	stand at the entrance of the temple.
<ul> <li>charging horses, figures from Hindu mythology, and yali (hippogriphs)</li> <li>Some of the larger temples are dedicated to a male deity, with a separate shrine</li> </ul>	Vijayanagar temples are also known for
<ul> <li>mythology, and yali (hippogriphs)</li> <li>Some of the larger temples are dedicated to a male deity, with a separate shrine</li> </ul>	their carved pillars , which depict
• Some of the larger temples are dedicated to a male deity, with a separate shrine	charging horses, figures from Hindu
to a male deity, with a separate shrine	mythology, and yali (hippogriphs)
	Some of the larger temples are dedicated
intended for the worship of his female	to a male deity, with a separate shrine
	intended for the worship of his female





## JUNE-2024

			counterpart. Some famous temples
			exemplifying the Vijayanagar style
			include the Virupaksha Temple at Hampi
			and the Hazara Rama temple of Deva
			Raya I.
86	Which of the following may result in	b	The Citizenship Act, 1955, prescribes three ways
	loss of citizenship of an Indian		of losing citizenship whether acquired under the
	citizen? 1. If the citizen voluntarily		Act or prior to it under the Constitution, viz,
	acquires citizenship of another		renunciation, termination and deprivation: When
	country.		an Indian citizen voluntarily (consciously,
	2. If the citizen has been ordinarily		knowingly and without duress, undue influence or
	resident out of India for six years		compulsion) acquires the citizenship of another
	continuously.		country, his Indian citizenship automatically
	3. If the citizen has shown disloyalty		terminates. This provision, however, does not
	to the Constitution of India.		apply during a war in which India is engaged.
	(a) 1 only		Deprivation is a compulsory termination of Indian
	(b) 1 and 3 only		citizenship by the Central government, if:
	(c) 2 and 3 only		• the citizen has obtained the citizenship by
	(d) 1, 2 and 3		fraud:
			<ul> <li>the citizen has shown disloyalty to the</li> </ul>
			Constitution of India:
			<ul> <li>the citizen has unlawfully traded or</li> </ul>
			communicated with the enemy during a war;
			• the citizen has, within five years after
			registration or naturalisation, been
			imprisoned in any country for two years; and
			• the citizen has been ordinarily resident out of
			India for seven years continuously.
87	In order to reduce or eliminate	С	Crowding out reduces the effectiveness of any
	crowding out, expansionary fiscal		expansionary fiscal policy, whether it be an
	policy can be accompanied by		increase in government purchases, an increase in



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## JUNE-2024

00	<ul> <li>(a) An increase in government spending</li> <li>(b) A decrease in investment</li> <li>(c) Expansionary monetary policy</li> <li>(d) Contractionary monetary policy</li> </ul>		transfer payments, or a reduction in income taxes. <u>https://economictimes.indiatimes.com/definition</u> <u>/crowding-out-effect</u>
88	Consider the following statements w.r.t. Alluri Sitaram Raju: 1. He was against the Gandhiji's Non-Cooperation Movement. 2. He asserted that India could be liberated only by the use of force. 3. He made astrological predictions. Which of the statements given above are correct?. (a) 2 only (b) 1 and 2 only (c) 1, 2 and 3 (d) 1 and 3 only	c	<ul> <li>Alluri Sitarama Raju was an Indian revolutionary involved in the Indian independence movement.</li> <li>He was born in present-day Andhra Pradesh in 1897 or 1898.</li> <li>He became a sanyasi at the age of 18 and gained a mystical aura among the hill and tribal peoples with his austerity, knowledge of astrology and medicine, and his ability to tame wild animals.</li> <li>At a very young age, Raju channelled the discontent of the hill people in Ganjam, Visakhapatnam, and Godavari into a highly effective guerrilla resistance against the British.</li> <li>He became involved in anti-British activities in response to the 1882 Madras Forest Act, which effectively restricted the free movement of Adivasis (tribal communities) in their forest habitats and prevented them from practicing a traditional form of agriculture known as podu (shifting cultivation).</li> <li>Rising discontent towards the British led to the Rampa Rebellion/Manyam Rebellion of 1922, in which he played a major part as a leader.</li> <li>The Rampa Rebellion coincided with Mahatma</li> </ul>





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### JUNE-2024

			<ul> <li>Gandhi's Non-Cooperation Movement. He persuaded people to wear khadi and give up drinking.</li> <li>But at the same time, he asserted that India could be liberated only by the use of force, not non-violence.</li> <li>He was nicknamed "Manyam Veerudu" (Hero of the Jungle) by local villagers for his heroic exploits.</li> <li>In 1924, Raju was taken into police custody, tied to a tree, and shot by a public execution, effectively ending the armed rebellion.</li> </ul>
89	<ul> <li>Which of the following statements is/are correct?.</li> <li>1. Lord Cornwallis introduced English as the literary and official language of India.</li> <li>2. Lord Macaulay put forth the Downward Filtration Theory.</li> <li>(a) 1 only</li> <li>(b) 2 only</li> <li>(c) Both 1 and 2</li> <li>(d) Neither 1 nor 2</li> </ul>	b	Macaulay introduced English as the literary and official language of India. <u>https://iasgoogle.com/editorial/lord-macaulay-s-</u> <u>minute-1835</u>
90	Consider the following statements with reference to Minamata Convention: 1. Global Environment Facility is the financial mechanism for Minamata Convention. 2. The convention is hosted by the	с	https://indianexpress.com/article/lifestyle/life- style/skin-bleaching-safety-tips-skincare- 8509896/ Minamata Convention is an international treaty signed in 2013. The convention aims to protect human health and the environment from the harmful effects of Mercury and its compounds. It





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#### JUNE-2024

United Nations Environment	caters to the release of mercury emissions and its
Programme.	releases into the environment. The convention is
Which of the statements given	named after the Japanese City Minamata due to
above is/are correct?	its symbolic importance as the city went through
(a) 1 only	a devastating incident of Mercury poisoning. It is
(b) 2 only	a UN treaty under the United Nations
(c) Both 1 and 2	Environment Programme. India is a party to the
(d) Neither 1 nor 2	convention and ratified it in 2018. India has
	ratified Minimata Convention in 2018.
	https://minamataconvention.org/en/implementat
	ion/gef
	Harmful products such as Hydroquinone, Kojic
	acid, and Mercury are present in many skin
	lightening products. Hydroquinone is considered
	as a primary topical ingredient for inhibiting
	melanin production because it reduces the skin's
	production of melanin which is responsible for
	skin color.
	Minamata Convention is an international treaty
	signed in 2013. The convention aims to protect
	the human health and environment from the
	harmful effects of Mercury and its compounds. It
	caters to the release of mercury emissions and its
	releases in the environment.
	Applications of Mercury:
	• Thermometers and Barometers: Mercury's high
	coefficient of thermal expansion and easy
	visibility make it suitable for use in traditional
	thermometers and barometers.
	• Chemical and Mining Processes: Mercury has
	been used in various chemical and mining
	processes, including the production of chlorine





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#### JUNE-2024

and mining of gold.
6 6
Electronics and Electrical Switches: Mercury-
wetted switches are used in various electrical
applications because mercury's conductivity and
low resistance make it suitable for creating a
reliable electrical connection.
Sources of Mercury Pollution:
Natural Sources:
• Volcanic eruptions release small amounts of
mercury.
• Erosion of rocks and soil can release mercury
into water bodies.
Anthropogenic Sources:
• Artisanal and Small-Scale Gold Mining (ASGM):
ASGM is a major source of mercury pollution,
where mercury is used to extract gold from ore.
• Mercury is used to extract gold particles from
ores, creating amalgams that are later heated to
evaporate the mercury, leaving behind gold.
• Artisanal gold mining operations are responsible
for 37% of global mercury pollution.
• Industrial Processes: Various industries, such as
chlorine production, cement manufacturing, and
waste incineration, emit mercury.
• The cement industry is responsible for around
11% of global anthropogenic mercury emissions.
• Waste Disposal: Improper disposal of e-waste
products containing mercury, such as
fluorescent bulbs and batteries, leads to
mercury leaching into the environment.
Associated Impact:
Methylmercury accumulates in aquatic
• memyimercury accumulates in aquatic





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### JUNE-2024

organisms like fish. People primarily come into
contact with methylmercury through the
consumption of fish and shellfish.
• This compound carries a higher risk of causing
Minamata disease, a condition characterized by
sensory impairment, tremors, and both auditory
and visual deficits.
• This illness was initially observed in the
residents of Minamata Bay, Japan, who
consumed mercury-contaminated fish due to
industrial waste pollution.
• Note: Methylmercury and ethylmercury differ
significantly. While methylmercury is linked to
health issues, ethylmercury is utilized as a
preservative in certain vaccines and is not
associated with health concerns.
Way Forward
• Mercury-Removing Filters: Innovative mercury-
1 (1) ( 1 ) 1 ) 1
removal filters for industrial emissions,
wastewater treatment, and consumer products
wastewater treatment, and consumer products
wastewater treatment, and consumer products can be designed and deployed.
<ul><li>wastewater treatment, and consumer products can be designed and deployed.</li><li>These filters could selectively capture and</li></ul>
<ul><li>wastewater treatment, and consumer products can be designed and deployed.</li><li>These filters could selectively capture and adsorb mercury particles from air and water</li></ul>
<ul><li>wastewater treatment, and consumer products can be designed and deployed.</li><li>These filters could selectively capture and adsorb mercury particles from air and water streams.</li></ul>
<ul> <li>wastewater treatment, and consumer products can be designed and deployed.</li> <li>These filters could selectively capture and adsorb mercury particles from air and water streams.</li> <li>Phytoremediation: Phytoremediation, allows</li> </ul>
<ul> <li>wastewater treatment, and consumer products can be designed and deployed.</li> <li>These filters could selectively capture and adsorb mercury particles from air and water streams.</li> <li>Phytoremediation: Phytoremediation, allows plants to absorb and accumulate mercury from</li> </ul>
<ul> <li>wastewater treatment, and consumer products can be designed and deployed.</li> <li>These filters could selectively capture and adsorb mercury particles from air and water streams.</li> <li>Phytoremediation: Phytoremediation, allows plants to absorb and accumulate mercury from soil, water, or sediments. These plants can then</li> </ul>
<ul> <li>wastewater treatment, and consumer products can be designed and deployed.</li> <li>These filters could selectively capture and adsorb mercury particles from air and water streams.</li> <li>Phytoremediation: Phytoremediation, allows plants to absorb and accumulate mercury from soil, water, or sediments. These plants can then be harvested and safely disposed of, effectively</li> </ul>
<ul> <li>wastewater treatment, and consumer products can be designed and deployed.</li> <li>These filters could selectively capture and adsorb mercury particles from air and water streams.</li> <li>Phytoremediation: Phytoremediation, allows plants to absorb and accumulate mercury from soil, water, or sediments. These plants can then be harvested and safely disposed of, effectively removing mercury from the environment.</li> </ul>
<ul> <li>wastewater treatment, and consumer products can be designed and deployed.</li> <li>These filters could selectively capture and adsorb mercury particles from air and water streams.</li> <li>Phytoremediation: Phytoremediation, allows plants to absorb and accumulate mercury from soil, water, or sediments. These plants can then be harvested and safely disposed of, effectively removing mercury from the environment.</li> <li>Implementing planetGOLD Program: There is a</li> </ul>





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### JUNE-2024

			<ul> <li>to eliminate mercury from artisanal gold mining and create safer working conditions. It operates under the Minamata Convention on Mercury.</li> <li>Funded by the Global Environment Facility, the program provides financial and technical support to help miners transition away from mercury use.</li> <li>planetGOLD's mercury-free processing plant in Burkina Faso serves as a model for transitioning away from mercury.</li> </ul>
Se an (a cc na (b po na (c po se (d ov	Which one of the following equences was proposed by Darwin nd Wallace for organic evolution? a) Overproduction, variations, onstancy of population size, atural selection. b) Variations, constancy of opulation size, overproduction, atural selection. c) Overproduction, constancy of opulation size, variations, natural election. d) Variations, natural selection, verproduction, constancy of opulation size.	a	<ul> <li>Darwin and Wallace proposed the theory of organic evolution, which is based on the following sequence:</li> <li>1. Overproduction: Organisms have the potential to produce more offspring than the environment can support. This leads to competition for limited resources.</li> <li>2. Variations: Within a population, individuals exhibit variations in their traits. These variations can be inherited from parents or arise due to random mutations.</li> <li>3. Constancy of population size: Despite the overproduction of offspring, populations tend to remain relatively stable in size over time. This is due to limited resources and other factors such as predation, disease, and competition.</li> <li>4. Natural selection: In a population with variations, individuals with traits that are advantageous in their environment are more likely to survive and reproduce. This is known as natural selection. Over time, the frequency of</li> </ul>





# JUNE-2024

			advantageous traits increases in the population,
			leading to evolutionary change.
92	A dark room technician losing his	с	https://www.vedantu.com/commerce/unemploy
	job because fewer people use film		ment-and-employment-generation
	cameras represents		
	(a) recessive unemployment		
	(b) frictional unemployment		
	(c) structural unemployment		
	(d) regressive unemployment		
93	Consider the following statements:	с	https://pib.gov.in/newsite/erelcontent.aspx?relid
	1. Swadesh Sevak Home was set up		=110116
	by G.D Kumar in Vancouver.		World War-I & Revolutionaries
	2. Komagata Maru killing happened		Onset of World War-I received a divided Indian
	during the First World War.		response. While moderates & extremists
	Which of the statements given		supported British in the war, revolutionaries
	above is/are correct?.		decided to utilise this opportunity.
	(a) 1 only		America
	(b) 2 only		• G D Kumar set up Swadesh Sevak
	(c) Both 1 and 2		Home in Vancouver and launched a paper
	(d) Neither 1 nor 2		in <b>Gurmukhi, Swadesh Sewak.</b>
			• United India House in Seattle was set up
			in 1910 by G D Kumar and Taraknath Das.
			• There was a restriction on <b>Indian immigration</b>
			into Canada in 1908. Taraknath Das, an
			Indian student, and one of the <b>first leaders of</b>
			Indian community in North America to start
			a <b>paper (called Free Hindustan).</b> He realized
			that while the British government was keen on
			Indians going to Fiji to work as a labourer for





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### JUNE-2024

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British planters, it did not want them to go to North America where they might be infected by ideas of liberty. • Centre of revolutionary activity soon shifted to the US, which provided a free political atmosphere. Ghadar party • It began in **1913** and conducted revolutionary activity in North America. It organized a weekly its newspaper, **The** Ghadar with headquarters in San Francisco. Ghadar means Revolt. On front page of each issue was a feature titled Angrezi Raj Ka Kacha Chittha or 'An Expose of British Rule.' • Most powerful impact was made by poems that appeared in The Ghadar, soon collected & published as **Ghadar di Goonj** and distributed free of cost. Notable members were Lala Hardayal, Bhagwan Singh, Barkatullah, Kartar Singh, Bhai Parmanand etc. • Plans of Ghadarites were encouraged by two events in 1914-Komagata Maru incident and outbreak of First World War. • Komagata Maru was a ship carrying 370 passengers, mainly Sikh and Punjabi Muslim would-be immigrants, **from** Singapore to Vancouver. Canadian authorities backturned them after two months of privation and uncertainty. It was believed that Canadian authorities influenced by British were government. The ship finally anchored at





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### JUNE-2024

			<ul> <li>Calcutta in September 1914. Inmates refused to board the Punjab-bound train. In the ensuing conflict with police at Budge Budge near Calcutta, many died.</li> <li>Inflamed by this and with outbreak of First World War, Ghadar leaders decided to launch a violent attack to oust British rule in India.</li> <li>Defence of India Act was passed in 1915 primarily to smash Ghadar movement. Europe</li> <li>Berlin Committee for Indian independence was established in 1915 by Virendra Nath Chattopadhyay and Bhupendra Dutta.</li> </ul>
94	Consider the following statements regarding Histamine: 1. It is an amino acid derivative. 2. It is a vasodilator. 3. It is released from mast cells. 4. It causes inflammation in the body. Which of the statements given above is/are correct? (a) 1 only (b) 1 and 2 only (c) 2 and 3 only (d) 1, 2, 3 and 4	d	https://www.thehindu.com/sci- tech/science/what-are- antihistamines/article68090729.ece A mast cell is the cell of connective tissue proper. Mast cells are like basophils of blood in structure and function. When an allergic substance enters into body mast cells secrete histamine. Because of histamine a part of blood comes out and is called exudate which causes swelling. A basophil is a type of white blood cell and a type of granulocyte. Basophils secrete histamine, serotonin, heparin, etc., and are involved in inflammatory reactions.
95	The most complex level of organization among the following is present in	a	https://www.vedantu.com/question-answer/give- characteristics-of-all-phylums-under-class-11- biology-cbse-5f8e9240813eab67c14d614c





## JUNE-2024

	(a) Leech		Protozoa are unicellular, eukaryotic, heterotrophic
	(b) Ascaris		organisms. They are either free-living or parasites.
	(c) Hydra		There are around 65000 species of protozoans
	(d) Plasmodium		categorised in different groups. They lack a cell
			wall. There are many different cell organelles, that
			perform various tasks performed by different
			organs in higher animals, e.g. mouth, anus,
			intestinal tract, etc. There are many protozoa, that
			cause various diseases in animals and humans,
			e.g. Plasmodium (malarial parasite), Trypanosoma
			(sleeping sickness), Trichomonas (trichomoniasis),
			etc.
96	1. Urea has 46% nitrogen content	D	With 46% N content, Urea is the most popular
	2. Though most crops use nitrate		Nitrogenous fertilizer around the world. When
	as source of nitrogen, a few crops		Urea is applied to soil, it is first hydrolysed (i.e.
	such as Paddy prefer Ammonical		broken by water) into Ammonical form
	form over nitrate.		(Ammonium Ion i.e. NH4+) and then to nitrite
	3. Once nitrate reaches		(NO <sup><math>2-</math></sup> ), followed by to nitrate (NO <sup><math>3-</math></sup> ) forms by the
	underground water, it is most		process called nitrification. Here, we note that
	difficult to remove.		most crops use nitrate as source of nitrogen (A
	4. Nitrate causes blue baby		few crops such as Paddy prefer Ammonical form
	syndrome.		over nitrate.). Thus nitrification process is



Choose the incorrect statement/(s).



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#### JUNE-2024

(a) 3 and 4 Only

(b) 2 and 3 Only

(c) 1 and 2 Only

(d) None of these

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necessary for making nitrogen available to plants.

However, if the process of nitrification is too rapid; nitrogen will escape to atmosphere and plants will not be able to recover it from Urea efficiently. Generally, the plants are able to recover a fraction of all Urea N and this fraction is known as Nitrogen Use Efficiency (NUE). This NUE stands anywhere between 30 to 50%. Thus, two third of Urea Nitrogen escapes from the soil and is not used by the plants. Further, faster conversion of nitrate into Urea also results in accumulation of nitrates in soil / underground water. Once nitrate reaches underground water, it is most difficult to remove; and causes diseases such as blue baby syndrome. This implies that there is a need to regulate the urea hydrolysis and nitrification. This is done by some chemical / natural agents which are called Nitrification inhibitors. However, most of the nitrification inhibitors are costly chemicals (examples nitrapyrin, dicyandiamide and ammonium thiosulphate ) beyond reach of Indian farmers. Coating Urea with Neem oil or Neem cake has been proved to be an effective natural alternative to these chemicals. It has been scientifically established that Neem oil serves as an effective inhibitor if coated on Urea. Thus, the benefits are as follows: Neem coating leads to more gradual release of urea, helping plants gain more nutrient and resulting in higher yields. Lower underground water contamination due to leaching of urea. Neem serves as a natural





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# JUNE-2024

			insecticide Collection of neem seeds is needed for
			manufacturing of neem coated urea. This would
			generate employments in rural areas. Neem-
			coating will help check heavily subsidized urea's
			pilferage to chemical industry and other uses
			such as making of adulterated milk.
97	Consider the following statements:	А	The Theosophical Society :
	1. The theosophical society opposed		$\circ$ Theosophy is the wisdom
	religious conversions.		underlying all religions when they
	2. The theosophical society favoured		are stripped of accretions and
	the study of comparative religion		superstitions.
	and philosophy.		$\circ$ The Theosophical Society was
	3. The theosophical society		founded by Madame
	supported the belief in occult		Blavatsky and Col. Olcott in 1875
	mysticism.		in New York.
	Which of the statements given		$\circ$ It was only in 1879, that this
	above are correct?.		ideology gained its roots in Indian
	(a) 1, 2 and 3		culture and society.
	(b) 1 and 2		<ul> <li>It was crystallised in the Madras</li> </ul>
	(c) 2 and 3		Presidency with its <b>headquarters in</b>
	(d) 1 and 3		Adayar.
			$\circ$ The movement was popularised
			by <b>Annie Besant</b> in India.
			• Theosophy was based on <b>three</b>
			principles :
			<ul> <li>Universal brotherhood.</li> </ul>
			<ul> <li>The study of comparative</li> </ul>
			religion and philosophy.
			<ul> <li>Investigations into the</li> </ul>
			natural laws which seek to
			understand the unexplained





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## JUNE-2024

			mystic laws.
			$\circ$ The Society accepted the Hindu
			beliefs in reincarnation, Karma
			and drew inspiration from the
			philosophy of the Upanishads and
			Samkhya, Yoga, and Vedanta
			Schools of thought.
			$\circ$ The movement aimed at the quest of
			Hindu spiritual wisdom through
			Western enlightenment.
			$\circ$ The movement revived and
			strengthened faith in the ancient
			doctrines and philosophies of the
			Hindus.
			$\circ$ Apart from the philosophical and
			spiritual discourse, which the
			Society carried on, its valuable
			contribution to the Hindu awakening
			came from its literary and research
			activities.
			<ul> <li>Hindu scriptures were</li> </ul>
			published and translated.
			• The Society encouraged reforms
			and framed educational schemes
			to work them out.
98	1. Uranium deposits can be found	С	Uranium deposits occur in the Dharwar rocks.
	in the Dharwar rocks of India.		Geographically, uranium ores are known to occur
	2. Thorium deposits have been		in several locations along the Singbhum Copper
	found in the Andhra Pradesh and		belt. It is also found in Udaipur, Alwarand
	Odisha.		Jhunjhunu districts of Rajasthan, Durg district of
	Which of the statements given		Chhattisgarh, Bhandara district of Maharashtra





### JUNE-2024

	above is/are correct?		andKullu district of Himachal Pradesh.
	(a) 1 only		Thorium is mainly obtained from monazite in the
	(b) 2 only		beach sands along the coast of Kerala and Tamil
	(c) Both 1 and 2		Nadu. World's richest monazite deposits occur in
	(d) Neither 1 nor 2		Palakkad and Kollam districts of Kerala, near
			Vishakhapatnam in Andhra Pradesh and
			Mahanadi river delta in Odisha.
99	Which of the following is/are the	С	The Red blood cells have a strong affinity for
	harmful effect of carbon monoxide?.		carbon monoxide and in the presence of carbon
	1. It causes damage to the Red		monoxide, they do not rapidly bind with oxygen.
	Blood cells.		This reduces the transport and delivery of oxygen
	2. It reduces the effective transport		to the organs. It also reduces the transport of
	of Carbon Dioxide.		carbon dioxide but the harm is mainly caused by
	3. It reduces the effective transport		ineffective oxygen supply. It does not cause any
	of Oxygen.		damage to Red blood cells and cannot increase
	(a) 1, 2 and 3		the transport of carbon dioxide.
	(b) 2 and 3 only		
	(c) 3 only		
	(d) 1 and 3 only		
100	1. Equator receives comparatively	D	The Equator receives less insolation than the
	less insolation than the tropics.		tropics because of the presence of clouds. At the
	2. In winter, the middle and higher		same latitudes the insolation is more over the
	latitudes receive less radiation than		continent than oceans because clouds over the
	in summer.		ocean reflect back the sunlight.
	3. In the same latitude the		Insolation over continents and oceans at the same
	insolation is more over the		latitude
	continent than over the oceans.		Insolation refers to the amount of solar radiation
	Which of these is/are FALSE?.		that reaches a specific area. It plays a significant
	(a) 1 & 3		role in determining the climate and weather
	(b) Only 3		patterns of a region. In this context, we are
	(c) Only 2		comparing the insolation over continents and





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### JUNE-2024

	(d) None of these		oceans at the same latitude.
			1. Oceans are cloudier:
			- Oceans have a higher potential to be cloudier
			compared to continents. This is because water
			bodies have higher evaporation rates, leading to
			increased moisture content in the atmosphere.
			- The presence of clouds can significantly affect
			the amount of solar radiation reaching the
			surface. Clouds can reflect or absorb solar
			radiation, reducing the amount that reaches the
			surface.
			- Therefore, due to the higher likelihood of cloud
			cover over oceans, the insolation is generally lower
			compared to continents at the same latitude.
			2. Continents have varied relief:
			- Continents are characterized by varied relief
			features such as mountains, plateaus, and plains.
			These relief features can influence the distribution
			of solar radiation.
			- Mountains, for example, can intercept the path
			of incoming solar radiation, causing shadows and
			reducing the amount of insolation reaching the
			surface. This phenomenon is known as the
			orographic effect.
			- In contrast, plains and low-lying areas tend to
			receive more direct solar radiation as there are no
			significant barriers to block or divert the incoming
			solar radiation.
			- Therefore, the varied relief of continents can lead
			to differences in the distribution of insolation at
			the same latitude compared to oceans.
101	It is the oldest artificial port and the	С	• Ennore Port is located on the Coromandel





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#### JUNE-2024

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second most important port of the country. It is not much suitable for large ships because of the shallow waters near the coast. Name the port referred here.

- (a) Mumbai port
- (b) Deendayal port
- (c) Chennai port
- (d) Ennore port

Coast about 18 km north of Chennai Port, Chennai. It is the first port in India which is a public company. Ennore port is located on the east coast of the Indian peninsula known as the Coromandel Coast in the Bay of Bengal and is situated 2.6 km north of the Ennore Creek. • Deendaval Port (previously called Kandla port) is situated in the Kandla Creek and is 90 kms from the mouth of the Gulf Of Kachch in Gujarat. It is a protected natural harbour. It is recognized as one of the major ports in India. It was constructed in the 1950s as the chief seaport serving western India, after the partition of India from Pakistan left the port of Karachi in Pakistan. Deendayal Port is hub for major imports like petroleum, chemicals and iron also export grains, salt and textiles. It remains India's biggest state-owned cargo handler by volume, but it has steadily lost market share to privately owned Mundra Port (India's largest private port) 60km to the southwest.

The Mumbai Port, also known as the Bombay Port, is found in Maharashtra and is a natural harbor. It holds the title of India's largest and one of its oldest ports. This bustling port is the busiest in India, responsible for managing roughly one-fifth of the country's total exports. In the harbor, you'll also find an island called Jawahar Dweep, equipped with four jetties for handling crude and petroleum products. Moreover, the Mumbai Port boasts three dock facilities: Prince's, Victoria, and Indira.



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### JUNE-2024

102Match the followingAIList IList IIList IIList IIA.Vienna1. Prior InformedConventionConsentProcedureB.2. Protection ofB. Rotterdam2. Protection ofRotterdamthe Ozone LayerC.Aarhus3. Access toConventionJusticeinEnvironmentalMatch the followingConventionJusticeinMattersD. Ottawa4.D.Ottawa4.Banindustrial chemicalsindustrial chemicalsTreatyIandminesMattersii. Stockholm convention - Protection of theorganism" (LMO)(b) 32143ii.Cartagena protocol - "living modified(c) 12314Vienna Convention - Protection of the(d) 2314ViennaConvention - Protection of the(c) 1243Convention - Protection of theOzone Layer(d) 2314Vienna convention - Protection of the(d) 2314ViennaConvention on Access(d) 3214ViennaConvention on Access <td< th=""><th></th><th></th><th></th></td<>			
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June 1998 in the Danish city of Aarhus (Århus) at the Fourth Environment for Europe Ministerial Conference. It entered into force on 30 October 2001. The Aarhus Convention is created to empower the role			Decision-Making and Access to Justice in
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Convention is created to empower the role			Europe Ministerial Conference. It entered
			into force on 30 October 2001. The Aarhus
of citizens and civil society organisations in			Convention is created to empower the role
			of citizens and civil society organisations in
environmental matters and is founded on			environmental matters and is founded on
the principles of participative democracy.			the principles of participative democracy.





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## JUNE-2024

			The Convention on the Prohibition of the
			Use, Stockpiling, Production and Transfer
			of Anti-Personnel Mines and on their
			Destruction of 1997, known informally as
			the Ottawa Treaty, the Anti-Personnel Mine
			Ban Convention, or often simply the Mine
			Ban Treaty, aims at eliminating anti-
			personnel landmines (APLs) around the
			world.
103	1. It was dropped on Hiroshima in	C	https://indianexpress.com/article/explained/expl
	1945.		ained-sci-tech/the-science-behind-a-nuclear-
	2. It works through a combination		bomb-8878006/
	of fission and fusion together.		
	Which of the statements given		
	above is/are correct w.r.t.		
	Hydrogen Bomb?		
	(a) Only 1		
	(b) Both 1 & 2		
	(c) Only 2		
	(d) Neither 1 Nor 2		
104	Anabaena is present in the root	D	Azolla forms a symbiotic relationship with the
	pockets of		nitrogen-fixing cyanobacterium Anabaena. The
	(a) Musa plant		small aquatic fern is its home, providing shelter
	(b) Gossypium		and nutrients in specialized structures known as
	(c) Cycas		root pockets. This connection is advantageous to
	(d) Azolla		both parties – Azolla obtains fixed nitrogen from
			Anabaena, while the cyanobacterium gains a safe
			environment and nutrient supply within the root
			pockets of the fern.
105	Green Muffler is a technique of	C	Green Muffler is a technique of reducing noise
	reducing		pollution by planting 4-6 rows of plants around





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### JUNE-2024

	(a) Air Pollution		the populated areas or noisy places like along
	(b) Soil Pollution		roadsides, industrial areas, societies near
	(c) Noise Pollution		highways, etc. These dense trees reduce noise
	(d) Water Pollution		pollution as they filter out the noise and obstruct
			it from reaching the citizens.
106	1. The Strait of Malacca lies between	А	The straits namely the Sunda and the Lombok
	Malaysia, Singapore and Indonesia,		<b>are</b> in the Indian Ocean. Sunda lies between the
	linking the Indian Ocean with the		Indonesian islands of Java and Sumatra and links
	South China Sea and the Pacific		the Java Sea with the Indian Ocean. The strait is
	Ocean.		shallow and narrow, has heavy tidal waves, drilling
			platforms and tiny islands, all of which do not
	2. The straits namely the Sunda and		make it attractive for movement of large oil
	the Lombok are in the Red Sea.		tankers. Lombok lies between the islands of Bali
	Which of these statements are		and Lombok, and is a possible alternative route to
	correct?		the Malacca Strait, but using it adds 1,600 km and
	(a) Only 1		over three days to journey time.
	(b) Only 2		
	(c) Both 1 and 2		
	(d) Neither 1 nor 2		
107	As per Section 3 of The Fiscal		
	<b>Responsibility and Budget</b>		1. Medium Term Fiscal Policy Statement sets a
	Management Act, 2003, Fiscal		three-year rolling target for prescribed fiscal
	policy statements to be laid before		indicators.
	Parliament are		2. Medium Term Expenditure Framework
	(I) the Medium - term Fiscal Policy		Statement contains explicit contingent liabilities.
	Statement		3. Fiscal Policy Strategy Statement contains
	(II) the Fiscal Policy Strategy		evaluation of how the current policies of Central
	Statement		Government are in conformity with the fiscal
	(III) the Macro - economic		management principles.
	Framework Statement		4. Macro-Economic Framework Settlement
	(IV) the Medium - term		contains assessment of growth prospects of the



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### JUNE-2024

	Expenditure Framework		economy.
	Statement		https://economictimes.indiatimes.com/markets/st
	Consider the following.		ocks/news/what-is-medium-term-fiscal-policy-
	1. Fiscal Policy Strategy Statement		statement/articleshow/56737837.cms?from=mdr
	sets a three-year rolling target for		https://www.business-standard.com/about/what-
	prescribed fiscal indicators.		is-medium-term-expenditure-framework-statement
	2. Macro-Economic Framework		https://www.business-standard.com/about/what-
	Settlement contains explicit		is-fiscal-policy-strategy-statement
	contingent liabilities.		https://www.business-standard.com/about/what-
	3. Medium Term Fiscal Policy		is-macro-economic-framework-statement
	Statement contains evaluation of		
	how the current policies of Central		
	Government are in conformity with		
	the fiscal management principles.		
	4. Medium Term Expenditure		
	Framework Statement contains		
	assessment of growth prospects of		
	the economy.		
	How many of the statements		
	given above is/are correct?		
	(a) All four		
	(b) Only two		
	(c) Only three		
	(d) None of these		
08	"CITES removes India from negative	D	India was under Review of Significant Trade
	list for export of Red Sanders".		process for Red Sanders since 2004.
	Headline News in recent times.		The removal of Red Sanders from RST process from
	Consider the following statements in		India was unconditional.
	this context.		The CITES Standing Committee has now
	1. India was under Review of		decided to place India in Category 1 from
	Significant Trade process for Red		Category 2.



2. The removal of Red Sanders

from RST process from India was

**3. The CITES Standing Committee** 

has now decided to place India in

Category 2 from Category 3.

How many of the statements

given above is/are correct?.



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#### JUNE-2024

Sanders since 2020.

conditional.

(a) Only one

(b) Only two

(c) All the three

(d) None of these

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https://pib.gov.in/PressReleasePage.aspx?PRID=1 976624#:~:text=The%20Minister%20said%20India %20was,farmers%20who%20grow%20Red%20San ders.

#### **Red Sanders**

Red sanders, classified as endangered by the IUCN, CITES (Appendix II), and Wildlife Protection Act (Schedule IV), are native to a specific region within the Eastern Ghats and are known for their unique flora. It is referred to as 'the pride of Eastern Ghats'. These trees have a slow growth rate, taking 25 to 40 years to mature, and they display remarkable resistance to droughts.

The Red Sanders heartwood is valued for its wavy grain. Besides its use in furniture, the red dye (called 'santalin') extracted from the wood serves as a colouring agent for textiles, medicine, and food.

# CITES

• CITES is an international agreement aimed to ensure that international trade in specimens of wild animals and plants does not threaten the survival of the species.

· Currently there are 184 Parties to CITES.

• It entered into force in 1975 and India became the 25th party, a state that voluntarily agrees to be bound by the Convention, in 1976.

• Although CITES is legally binding on States it is generally not self-executing.

• This means that it cannot be fully implemented until specific domestic measures have been adopted for that purpose.





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### JUNE-2024

			· It is therefore essential that CITES Parties have
			legislation in place allowing them to implement and
			enforce all aspects of the Convention.
			CITES National Legislation Programme:
			$\cdot$ National laws must fulfill all these minimum
			requirements under CITES National Legislation
			programme:
			· Designate a Management Authority and a
			Scientific Authority.
			· Prohibit trade violating the Convention.
			· Penalize such illicit trade.
			· Confiscate illegally traded or possessed
			specimens.
			After consulting the concerned Party, the CITES
			Secretariat assesses the national legislation
			concerning these criteria and categorizes it into one
			of three categories:
			· Category 1: Legislation generally meeting CITES
			implementation requirements.
			· Category 2: Legislation generally not meeting all
			CITES implementation requirements.
			· Category 3: Legislation generally not meeting
			CITES implementation requirements.
109	Which of the following is/are true	А	https://economictimes.indiatimes.com/news/indi
	w.r.t. "anti-profiteering provision		a/setback-for-hul-nestle-patanjali-and-others-as-
	under GST"?.		hc-upholds-anti-profiteering-provisions-under-
	(a) Any reduction in GST rate or		gst/articleshow/107220027.cms?from=mdr
	benefit of input tax credit should be		The erstwhile National Anti-Profiteering Authority
	passed on to the end consumer and		(NAA) was initially constituted on 28th November,
	not retained by the business.		2017 under section '7' (2) of central Goods and
L			





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### JUNE-2024

	1	1	1
	(b) Anti-profiteering complaints is		Service Tax (GST) Act, 2017. In 45th GST council
	handled by National Anti-		meeting it was decided to explore possibility of
	Profiteering Authority.		transferring all cases to Competition Commission
	(c) Both (a) and (b)		of India (CCI).
	(d) Neither (a) nor (b)		The Ministry of Finance vide Notification No.
			23/2022-C.T. dated 23.11.2022 in exercise of the
			powers conferred by sub-section (2) of Section 171
			of the Central Good and Service Act, 2017
			empowered the Competition Commission of India,
			established under Section 7(1) of the Competition
			Act, 2002 to examine whether input tax credits
			availed by any registered person or the reduction in
			the tax rate have actually resulted in a
			commensurate reduction in the price of the goods
			or services or both supplied by him.
			Aforementioned notification came into force with
			effect from 1st day of December, 2022.
110	1. Samannaphala Sutta makes a	А	The Bhagavati Sutra, aur Vyakhyaprajnapti, is the
	reference to Ajatashatru of		fifth of the 12 Jain Agamas reported to have been
	Magadha meeting Gautama		published by Mahavira. Sudharmaswami of the
	Buddha.		Vtmbara school of Jainism is reported to have
	2. The Bhagavati Sutra is a		composed the Vyakhya Prajnapti, which is written
	Buddhist text		in Jain Prakrit. It is the canon"s largest work,
	Which of the above statement		containing 36,000 questions that Mahavira is
	is/are correct?		supposed to have answered. The replies cover a
	(a) 1 only		wide range of topics, from dogma to ascetic norms.
	(b) 2 only		
	(c) Both 1 and 2		
	(d) Neither 1 nor 2		
111	Which animals are transgenic?	С	In order to produce transgenic genetic alteration is





## JUNE-2024

		1	
	1. Animals with foreign DNA in some		introduced in the ovum or fetus level or the entire
	cells		DNA of all the cells changes rather than affecting
	2. Animals with foreign DNA in all		DNA in some cells. RNA alteration does not
	cells		produce transgenic animals.
	3. Animals with foreign RNA in all		
	cells		
	(a) 1, 2 and 3		
	(b) 2 and 3 only		
	(c) 2 only		
	(d) 1 and 2 only		
112	Which of the following statements	С	The first newspaper to be printed in both the
	is/are correct?		Indian subcontinent and Asia was the weekly
	(1) It was Lord Hastings who		newspaper Bengal Gazette started by James
	abolished Censorship.		Augustus Hicky. The paper was published for
	(2) The Bengal Gazette was started		two years, I.e., between 1780 and 1782, before
	as a weekly during the tenure of		the East India Company seized the newspaper''s
	Lord Wellesley.		types and printing press. Because he was a
	(3) JS Buckingham started the		strong critic of Governor General Warren
	Calcutta journal during the tenure		Hastings" administration.
	of Lord Hastings.		Hickey began publication for the newspaper on 29
	(a) 3 only		January 1780 after printing a prospectus
	(b) 1, 2 and 3		announcing the fact that he will print newspapers.
	(c) 1 and 3 only		One must realise that the idea of printing a
	(d) 2 and 3		newspaper in India had been floating around for
			more than 12 years before Hickey took it upon him
			to execute the idea of printing.
			Hicky''s Bengal Gazette was known for its
			sarcastic and provocative writing style. Unlike
			many newspapers of its time, the newspaper
			discussed taboo topics proto-class consciousness,
			arguing for the rights of the poor and the right to
		•	· · · · · · · · · · · · · · · · · · ·





### JUNE-2024

taxation with representation
• Times of India – founded in 1838
· Kesari – founded in 1881
· Bengal gazette – founded in 1779
• The Hindu – founded in 1878
https://cmsadmin.amritmahotsav.nic.in/distri
ct-reopsitory-detail.htm?10986
• One of the important events during the tenure
of Lord Hastings was abolition of Censorship. This
was basically because of his dislike towards
"unnecessary" imposition of restrictions on Press.
But as a precaution, he issued some guidelines
prohibiting company's policies in the newspapers.
• The result was that many fresh newspapers
came up. India's first Vernacular newspapers
Samachar Darpan was started in 1818. However,
some scholars note that "Bengal Gazetti" was
published even prior to this Vernacular magazine
by Ganga Kishore Bhattacharya.
• Then in 1818 only "Calcutta Journal" was
started by J S Buckingham.
· 3 years later Raja Ram Mohun Roy started
national press in India. He published "Sambad
Kaumudi" in 1821. This was one of the pre-
reformist publications that had actively
campaigned for "Abolition of Sati".
• There was a growing public outcry for Sati and
it "inspired" Lord William Bentinck to abolish
"Practice of Sati" in 1829.
· However, this liberal policy of Lord Hastings
could not continue further. The successors of Lord
Hastings took harsh actions against the press





# JUNE-2024

			people.
113	Consider the following statements:	А	The term Nadukal mentioned in the Sangam
	1. Mamulanar of the Sangam age		literature means memorial stone.
	has referred to a Mauryan expedition		Manulanar was a Brahmin caste member.
	against a Tamil chieftain.		Mamulanar has written about the Ganges"
	2. The term Nadukal mentioned in		destruction of the Pataliputra. Manulanar was a
	the Sangam literature was an item of		poet of the Sangam age who has referred to a
	export in Indo-Roman trade as		Mauryan expedition against a Tamil chieftain The
	evidenced by the remanats at		fire of Patalipura in the first century CE, on the
	Arikamedu.		other hand, was not mentioned. Mamulanar lived
	Which of the statements given above		no later than the 1st century BCE, according to
	is/are correct?		these findings. Some have concluded that the
	(a) 1 only		Podiyil hill, which adjoins the Tirunelveli and
	(b) 2 only		Madurai districts (Tamil Nadu) to the west, was the
	(c) Both 1 and 2		farthest limit of the Mauryan invasion in the south,
	(d) Neither 1 nor 2		based on references to Mauryas in Sangam
			literature (in five Sangam poems, three by
			Mamulanar).
114	The Election Commission of India is	В	The elections for the President and Vice President
	responsible for holding elections to		of India, the Rajya Sabha (council of states) and
	1. State Legislative councils		Lok Sabha (house of the people), State Legislative
	2. Office of President		Assemblies (including Union territories of Delhi
	3. Office of Vice-President		and Puducherry), and State Legislative Councils
	(a) 2 and 3 only		are conducted by the Election Commission of India
	(b) 1, 2 and 3		(ECI).
	(c) 1 only		
	(d) 1 and 2 only		
115	The text of the document called	С	With the Mahzar Nama, Akbar pounced upon the





# 19 years of Ethical IAS Coaching

#### JUNE-2024

	Mahzar, by which Akbar assumed		dominance of the intolerant orthodox and allowed
			free development of a genuine religious spirit.
	the role of supreme arbiter in the		
	matters of religion is found in		Mahzar Nama was actually an idea of the father of
	(a) Nizamuddin''s Tabaqat-I-Akbari		Abul Fazal and Faizi, set that the authority of the
	(b) Arif Quandahari''s Tarikh-I-Alfi		King was higher than that of a Mujtahid (doctor of
	(c) Abul Fazl''s Akbarnama		the faith) and if there is a variance, the emperor's
	(d) Badauni''s Muntakahab-ut-		decision should be binding on the Muslims of
	Tawarikh		India. With this edict, Akbar's judgment was set
			above every legal and religious authority, so it was
			the promulgation of the doctrine of Imperial
			infallibility.
116	Consider the following.	С	Aerosols have a cooling effect on Earth's climate
	1. Most aerosols are found in the		when they scatter solar radiation because some of
	lower troposphere.		the scattered light is reflected back into space.
	2. Aerosols have a cooling effect on		Major volcanic eruptions that inject large
	Earth''s climate.		quantities of aerosols into the stratosphere, such
	Which of these is/are true?.		as that of Mt. Pinatubo in 1991, can noticeably
	(a) Only 1		reduce average global surface temperatures for
	(b) Only 2		some time afterward.
	(c) Both 1 & 2		
	(d) Neither 1 Nor 2		
117	Granville Austin describes the	D	Kesavananda Bharti v. State of Kerala: The
	following as "Conscience of the		fundamental rights and directive principles
	Constitution".		constitute the "conscience of the constitution"
	(a) Preamble and Fundamental		there is no antithesis between the fundamental
	Rights		rights and directive principles and one
	(b) Preamble, Fundamental Rights		supplements the other.
	and Directive Principles of State		
	Policy		
	(c) Fundamental Rights and		





# JUNE-2024

	Fundamental Duties (d) Fundamental Rights and Directive Principles of State Policy		
118	<ol> <li>2nd Schedule</li> <li>3rd Schedule</li> <li>5th Schedule</li> </ol>	D	A number of provisions in the Constitution can be amended by a simple majority of the two Houses of Parliament outside the scope of Article 368. These provisions include:
	<ul> <li>4. 4th Schedule</li> <li>Which of the above Schedules of the Constitution can be amended by a simple majority of the Parliament?.</li> <li>(a) 1 and 2 only</li> <li>(b) 2 and 4 only</li> <li>(c) 3 and 4 only</li> <li>(d) 1 and 3 only</li> </ul>		provisions include: Admission or establishment of new states. Formation of new states and alteration of areas, boundaries or names of existing states. Abolition or creation of legislative councils in states. Second Schedule-emoluments, allowances, privileges and so on of the president, the governors, the Speakers, judges, etc. Quorum in Parliament. Salaries and allowances of the members of Parliament. Rules of procedure in Parliament. Privileges of the Parliament, its members and its committees. Use of English language in Parliament. Number of puisne judges in the Supreme Court. Conferment of more jurisdiction on the Supreme Court. Use of official language.





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### JUNE-2024

			Citizenship-acquisition and termination. Elections to Parliament and state legislatures. Delimitation of constituencies. Union territories. Fifth Schedule-administration of scheduled areas and scheduled tribes.
			• Sixth Schedule-administration of tribal areas.
119	1. The horse latitudes are regions	C	These diverging winds are the result of an area of
	located at about 30 degrees north		high pressure, which is characterized by calm
	and south of the equator.		winds, sunny skies and little or no precipitation.
	2. The horse latitudes are		
	characterized by calm winds and		
	little precipitation.		
	Which of these statements are		
	correct?		
	(a) Only 1		
	(b) Only 2		
	(c) Both 1 and 2		
	(d). Neither 1 nor 2		
120	1. It is a squared building.	С	Gol Gumbaz: Bijapur (modern Vijayapura) was the
	2. It was built by Qutb ud-Din		capital of the Adil Shahi dynasty during1480-1686.
	Aibak.		It is famous for its magnificent buildings and
	Which of the statements given above		dargahs. Gol Gumbaz (round dome) is the
	is/are correct w.r.t. Gol Gumbaz?		mausoleum of the seventh ruler of the dynasty





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### JUNE-2024

(a) 1 only	Mohammad Adil Shah (1627-1656). Mohammad
(b) 2 only	Adi Shah commissioned the mausoleum in his
(c) Both 1 and 2	lifetime. Built of dark grey basalt and decorated
(d) Neither 1 nor 2	plaster, the exterior of Gol Gumbaz is simple but
	beautiful. On the four corners of the bare walls are
	four doomed octagonal towers. Each tower has
	seven storeys and each storey has several windows
	which give the structure a striking look. The dome
	is the second largest in the world after St. Peter's
	Basilica in Rome. The huge chamber of 135 ft each
	wall and 178 ft high contain an elevated platform
	on which five cenotaphs are placed. Those are of
	Muhammad Adil Shah, his wife Arus Bibi, a
	daughter, a grandson and his favourite mistress
	Rambha.
	The structure is known for its acoustics, as a
	whisper on one side of the dome can be heard
	clearly on the other side, over 100 feet away.
	· Gol Gumbaz is situated in Bijapur,
	Karnataka.
	· Gol Gumbaz built by Mohammad Adil
	Shah is the largest masonry dome in the world.
	Adil Shahis of Bijapur (1490 AD-1686 AD)
	· It was founded by Yusuf Adil Shah.
	· It was annexed by Aurangzeb.
	• Mohammed Adil Shah was the seventh ruler
	of Bijapur.
	• The greatest ruler of the kingdom
	was Ibrahim Adil Shah.
	• He introduced Dakini in place of the Persian
	language.





### JUNE-2024

			<ul> <li>Adil Shahis belonged to the Bahamani Kingdom.</li> <li>Bahamani Kingdom</li> <li>The Bahamani kingdom of Deccan was founded by Hasan Gangu.</li> <li>The capital was Gulbarga.</li> <li>Hasan Gangu took the title of Alauddin Hasan Bahaman Shah and became the first king of Bahaman in 1347 AD.</li> </ul>
121	<ol> <li>Methane makes up far less of the atmosphere than carbon dioxide.</li> <li>Clearing of the rain forests greatly reduces the methane content of the atmosphere.</li> <li>Water vapor is a good absorber of Earth's outgoing radiation.</li> <li>Which of the statements is/are correct?</li> <li>(a) Only 2 and 3 are correct</li> <li>(b) Only 1 and 3 are correct</li> <li>(c) Only 1 is correct</li> <li>(d) All are correct</li> </ol>	В	Methane is a colorless, odorless gas that's produced both by nature (such as in wetlands when plants decompose underwater) and in industry (for example, natural gas is mostly made of methane). It is widely regarded as the second most important greenhouse gas, after carbon dioxide (CO2). However, methane is about 200 times less abundant in the atmosphere and lasts there for only about a decade on average—while CO2 can last for centuries. To put it another way: methane does its damage quickly but soon fades away, while CO2 traps a smaller amount of heat consistently, decade after decade. Termites eat wood and produce methane as a result of the breakdown of cellulose in their digestive tracts. They are thought to be responsible for 11% of the methane in the atmosphere (some estimates are as high as 20% - 40%). The clearing of the rain forests greatly impacts termite populations and in turn the methane content of the atmosphere. When a patch of rain forest is cleared, termite populations explode due to the





# JUNE-2024

1221. A thicker layer of ozone would be harmful.DRadio Transmission is possible due to Ionosphere. The thickness of the ozone layer generally varies with the seasons and other geographical factors. According to reports, the ozone layer is approximately 20 to 30 kilometres above Earth, which is about 3 mm in thickness or about 300 Dobson Units. Every year, 16th of September is observed as the World Ozone Day. The ozone layer plays a very significant role both by protecting the planet earth and the lives existing on it. Therefore, we all should protect the ozone layer by limiting the use of CFCs - Chlorofluorocarbons, Chlorine, pesticides, nitrous oxide, halo-carbons and other harmful gases and help in the restoration of the Ozone layer.(d) 2 OnlyCording to reports, statement/'s the use of CFCs - Chlorofluorocarbons, Chlorine, pesticides, nitrous oxide, halo-carbons and other harmful gases and help in the restoration of the Ozone layer.Vertice Climate change: Ozone is a greenhouse gas, and a thicker ozone layer could contribute to warming of the Earth''s atmosphere. This could potentially exacerbate climate change and its associated impacts, such as rising global temperatures and changing weather patterns.				ample food source that is left behind. Water vapor can vary from 4% in the steamy tropics to nearly nonexistent in the cold dry regions of the Antarctic. Water vapor is a good absorber of Earth''s outgoing radiation and thus is considered a greenhouse gas. When water vapor is converted to a liquid during condensation, clouds are formed.
	122	<ul> <li>harmful.</li> <li>2. Radio Transmission is possible due to Mesosphere.</li> <li>3. 1° C is higher than 1° F by a factor of 1.8.</li> <li>4. The atmosphere reaches its coldest temperature of around -900C in the mesosphere.</li> <li>Choose the incorrect statement/(s) using the codes below</li> <li>(a) 3 and 4 Only</li> <li>(b) 2 and 3 Only</li> <li>(c) 1 and 2 Only</li> </ul>	D	The thickness of the ozone layer generally varies with the seasons and other geographical factors. According to reports, the ozone layer is approximately 20 to 30 kilometres above Earth, which is about 3 mm in thickness or about 300 Dobson Units. Every year, 16th of September is observed as the World Ozone Day. The ozone layer plays a very significant role both by protecting the planet earth and the lives existing on it. Therefore, we all should protect the ozone layer by limiting the use of CFCs – Chlorofluorocarbons, Chlorine, pesticides, nitrous oxide, halo-carbons and other harmful gases and help in the restoration of the Ozone layer. Negative effects of thickening of Ozone layer • Climate change: Ozone is a greenhouse gas, and a thicker ozone layer could contribute to warming of the Earth's atmosphere. This could potentially exacerbate climate change and its associated impacts, such as rising global temperatures and changing weather patterns. • Interference with atmospheric processes:





# 19 years of Ethical IAS Coaching

### JUNE-2024

			atmospheric processes, such as the formation of weather patterns and the circulation of air masses. This could have unpredictable effects on regional and global climate systems. https://www.vedantu.com/question- answer/degrees-celsius-will-be-equal-to-1-degree- class-7-maths-cbse-5fe0df5dc4ebda49e13b1ae5 https://scied.ucar.edu/learning- zone/atmosphere/mesosphere#:~:text=The%20mes osphere%20is%20a%20layer,with%20height%20th roughout%20the%20mesosphere. Celsius to Fahrenheit $T^{\circ}F=(9/5)T^{\circ}C+32$ Fahrenheit to Celsius $T^{\circ}C=(5/9)(T^{\circ}F-32)$
123	<ol> <li>Salts of sorbic acid</li> <li>Salts of propanoic acid</li> <li>Sugar</li> </ol>	D	Food preservatives prevent spoilage of food due to microbial growth. The most commonly used preservatives include table salt, sugar, vegetable
	<ul> <li>3. Sugar</li> <li>4. Sodium Bisulfite</li> <li>How many of the above are used as</li> <li>Food preservatives?</li> <li>(a) Only one</li> <li>(b) Only two</li> <li>(c) Only three</li> <li>(d) All the four</li> </ul>		<ul> <li>oils and sodium benzoate, C6H5COONa. Sodium</li> <li>benzoate is used in limited quantities and is</li> <li>metabolised in the body. Salts of sorbic acid and</li> <li>propanoic acid are also used as preservatives.</li> <li>The most common chemicals used to inhibit</li> <li>the growth of microorganisms are salts and edible</li> <li>oils. As a result, they are referred to</li> <li>as preservatives.</li> <li>To prevent microbes from attacking pickles,</li> </ul>





# 19 years of Ethical IAS Coaching

### JUNE-2024

124	<ol> <li>Electrons are not made of quarks.</li> <li>Protons and Neutrons are made up of quarks.</li> <li>Which of the statements given above is/are correct?</li> <li>(a) 1 only</li> <li>(b) 2 only</li> <li>(c) Both 1 and 2</li> <li>(d) Neither 1 nor 2</li> </ol>	С	<ul> <li>we add salt or acid preservatives.</li> <li>These are also used to prevent spoilage in jams and squashes.</li> <li>Common preservatives include sodium benzoate and sodium metabisulphite.</li> <li>Sodium benzoate is used as a food preservative because of its anti-fungal properties. This chemical compound enters each cell and balances the pH of the food, effectively increasing the acidity of the food and assisting in food preservation.</li> <li>Many pharmaceutical formulations contain sodium metabisulphite as an antioxidant. It is widely used as a preservative and disinfectant in food.</li> <li>An electron cannot be composed of quarks because quarks are affected by the strong nuclear force whereas an electron is not. They are in a separate "family" of particles known as LEPTONS. https://www.thehindu.com/sci-tech/science/massive-neutron-stars-quark-matter-open-problem/article68128512.ece</li> </ul>
125	<ul><li>Consider the following statements.</li><li>1. Gymnosperms and angiosperms</li><li>both have seeds.</li><li>2. Gymnosperms are wind</li><li>pollinated.</li></ul>	A	https://www.thehindu.com/sci- tech/science/understanding-of-earths-flowering- plants-blossoms-in-genome- study/article68105084.ece





### JUNE-2024

	3. Gymnosperms succeeded		Gymnosperms preceded angiosperms on the
	angiosperms on the Earth.		Earth.
	How many of the statements given		
	above is/are incorrect?		
	(a) Only one		
	(b) Only two		
	(c) All the three		
	(d) None of these		
126	The pyramid which cannot be	А	Ø Pyramids of energy show the relative amount of
	inverted in a stable ecosystem is that		energy available at each trophic level. his pyramid
	of		is always upright because of the loss of energy as
	(a) Energy		each level consumes the lower one.
	(b) Numbers		Ø A pyramid of biomass illustrates the relative
	(c) Biomass		amount of living organic matter at each trophic
	(d) Both (a) and (b)		level.
			A pyramid of numbers shows the relative number
			of individual organisms at each trophic level in an
			ecosystem
127	How many of the following	С	https://www.thehindu.com/sci-
	statements is/are true about		tech/science/huge-energetic-flare-from-magnetic-
	Magnetars?		neutron-star-detected/article68105064.ece
	1) They are different from neutron		https://pib.gov.in/PressReleasePage.aspx?PRID=1
	stars.		<u>990198</u>
	2) They produce gamma-ray bursts.		
	3) The X-ray bursts from the		
	magnetar were detected by Astrosat.		
	Select the correct answer using the		
	codes given below:		
	(a) Only one		





### JUNE-2024

	(b) Only two		
	(c) All the three		
	(d) None of these		
128	Consider the following	Α	The ordinance-making power is the most
	statements:		important legislative power of the President. It
	1. The President can promulgate		has been vested in him to deal with unforeseen
	an ordinance only when both the		or urgent matters. But, the exercise of this
	Houses of Parliament are not in		power is subject to the following four
	session.		limitations:
	2. The decision of the President to		$\cdot$ He can promulgate an ordinance only when both
	issue an ordinance can be		the Houses of Parliament are not in session or
	questioned in a court of law.		when either of the two Houses of Parliament is not
	Which of the statements given		in session. An ordinance can also be issued when
	above is/are not correct?		only one House is in session because a law can be
	(a) 1 only		passed by both the Houses and not by one House
	(b) 2 only		alone.
	(c) Both 1 and 2		$\cdot$ He can make an ordinance only when he is
	(d) Neither 1 nor 2		satisfied that the circumstances exist that render it
			necessary for him to take immediate action. In
			Cooper case, (1970), the Supreme Court held that
			the President"s satisfaction can be questioned in a
			court on the ground of malafide. This means that
			the decision of the President to issue an ordinance
			can be questioned in a court on the ground that
			the President has prorogued one House or both
			Houses of Parliament deliberately with a view to
			promulgate an ordinance on a controversial
			subject, so as to bypass the parliamentary decision
			and thereby circumventing the authority of the
			Parliament.
			· His ordinance-making power is coextensive as





# JUNE-2024

			<ul> <li>regards all matters except duration, with the law- making powers of the Parliament.</li> <li>Every ordinance issued by the President during the recess of Parliament must be laid before both the Houses of Parliament when it reassembles.</li> </ul>
129	<ol> <li>There was a complete disunity among Hindu and Muslim peasants.</li> <li>Hem Chandra Kar was one of the prominent leaders of the rebellious ryots.</li> <li>Christian Missionaries extended active support to Indigo ryots.</li> <li>Which of the statements given above are correct regarding of the Indigo Revolt (1859-60)?.</li> <li>1 and 2 only</li> <li>2 and 3 only</li> <li>1 only</li> </ol>	В	It was a result of both the major religious groups of farmers in Bengal, notably a farmer Haji Molla of Nischindipur said that he would rather beg than sow indigo. The farmers were in no possession of any type of arms and had no proper organization and discipline. Hem Chandra Kar was one of the prominent leaders of the rebellious ryots. The key objective of the Indigo Revolt of 1859-60 was to stop the forced cultivation of indigo by European planters, who oppressed the peasants. The Revolt was a success because by 1860, most of the indigo factories were shut down and the ryots won the freedom to sow the crop of their choice in their fields. Hindu-Muslim-Christian unity – Hindus and Muslims fought shoulder – to shoulder, whereas missionaries extended active support to the ryots.
130	<ul> <li>Which one of the following</li> <li>statements is/are wrong?</li> <li>(1) Dharmapala established</li> <li>Somapura Mahavihara.</li> <li>(2) Haribhadra was the spiritual</li> <li>preceptor of Dharmapala.</li> <li>(3) Agama Shastra was written by</li> <li>Gaudapada.</li> </ul>	D	Sashanka, the Gauda ruler, believed to have ruled between 590 and 625 CE, is considered the first prominent king of ancient Bengal. After the fall of the Gauda kingdom, there was no central authority, which led to recurring wars between petty chieftains. So, in 750 CE, a group of chiefs met and decided on a "Kshatriya chief " named Gopala to be their ruler. There is a story that





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#### JUNE-2024

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(4) Ramacharitam is a biography of a Gopala was elected because of his ability to kill a "demoness" that had killed those who were later Pala ruler Ramapala. previously elected like him. Though Gopala did not (a) 1 and 3 only have royal antecedents, he succeeded in acquiring (b) 2 and 3 only a kingdom. Gopala's political authority was soon (c) 1 and 2 only recognised by several independent chiefs. His (d) 1, 2, 3 and 4 original kingdom was in Vanga or East Bengal. Pala Rulers Gopala I was succeeded by his son Dharmapala (770–815 CE) who made the Pala kingdom a force to reckon with. Bengal and Bihar were directly ruled by him. Kanauj was ruled by his nominee. The rulers of the Punjab, Rajaputana, Malwa and Berar accepted his suzerainty. He assumed titles like Paramesvara, Parambhattaraka and Maharajadhiraja. Dharmapala proved to be a great patron of Buddhism. He founded the Vikaramasila monastery in Bhagalpur district in Bihar, which developed into a great centre of Buddhist learning and culture. He built a grand vihara at Somapura in modern Paharapura (present-day Bangladesh). Dharmapala also built a monastery at Odantapuri in Bihar. He patronised Harisbhadra, a Buddhist writer. Dharmapala's son Devapala extended Pala control eastwards up to Kamarupa (Assam). He defeated Amoghavarsha, the Rashtrakuta ruler, by allying with all the states that regarded the Rashtrakutas as their common enemy. Devapala was also a great patron of Buddhism. He granted five villages to Balaputradeva, the king of the Sailendra dynasty of





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#### JUNE-2024

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Suvarnadipa (Sumatra), to maintain a monastery built by him at Nalanda. Nalanda continued to flourish as the chief seat of Buddhist learning even during the Pala reign.

Devapala was succeeded by Vigramapala, who abdicated his throne after ruling for a few years and went to lead an ascetic life. Narayanapala, son of Vigramapala, was also a man of pacific and religious disposition. The Rashtrakutas and the Pratiharas took advantage of Narayanapala's disposition and defeated the Palas. The rise of the Pratiharas in Jalore under Mihira Bhoja and the advance of the Rashtrakutas into Pala territories inevitably brought about the decline of the Palas. The petty chiefs, who formerly owed allegiance to the Palas, also started asserting their independence.

The slide of the Pala dynasty was accelerated during the rule of his three successors – Rajyapala, Gopala III and Vigramapala II. The fortunes of the dynasty, however, were revived by Mahipala I, son of Vigramapala II. The most important event of his period was the invasion of northern India by Rajendra Chola sometime between 1020 and 1025 CE. However, the advance of the Cholas beyond the Ganges was checked by Mahipala I.

After 15 years of Mahipala's rule, four insignificant rulers followed. Ramapala was the last ruler who tried to recover the lost glory of the dynasty. He ruled for about 53 years and after his death, the presence of Pala dynasty was confined to only a portion of Magadha (Bihar) and continued to exist





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#### JUNE-2024

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only for a short period. Vijayasena of the Sena dynasty who had become powerful by then in northern Bengal expelled the last ruler Madanapala (1130–1150 CE) from Bengal and established his dynastic rule. Religion - The Palas were great patrons of Mahayana Buddhism. The Buddhist philosopher Haribhadra was the spiritual preceptor of Dharmapala, the founder of the Pala kingdom. Bengal remained one of the few places where Buddhist monasteries continued to exist. The kingdom as well as Buddhism soon suffered decline because of large-scale conversion of merchants and artisans to Islam. Art and Architecture - Two artists of this period were Dhiman and his son Vitapala. They were great painters, sculptors and bronze statue makers. The Pala school of sculptural art was influenced by the Gupta art. Mahipala I constructed and repaired several sacred structures at Saranath, Nalanda and Bodh Gaya. Gopala founded the famous monastery at Odantapura (Bihar). Dharmapala established the Vikramashila and the Somapura Mahaviharas (Bangladesh). Literature - The prominent Buddhist scholars of Vikramashila and Nalanda universities were Atisha, Saraha, Tilopa, Dansheel, Dansree, Jinamitra, Muktimitra, Padmanava, Virachan and Silabhadra. The notable Pala texts on philosophy include Agama Shastra by Gaudapada, and Nyaya Kundali by Sridhar Bhatta. Many texts on medicine were compiled by Chakrapani Datta,





# 19 years of Ethical IAS Coaching

#### JUNE-2024

			Sureshwar Gadadhara Vaidya and Jimutavahana.
			The Palas also patronised Sanskrit scholars. Many
			Buddhist tantric works were authored and
			translated into Sanskrit. The original tantric works
			comprise a varied group of Indian and Tibetan
			texts. The "Mahipalageet" (songs on Mahipala), a
			set of folk songs, are still popular in the rural areas
			of Bengal. Sandhyakar Nandi's epic Ramacharitam,
			a biography of a later Pala ruler Ramapala,
			describes how forest chiefs were brought into their
			alliance through lavish gifts.
131	What is meant by "Momentum	А	https://www.thehindu.com/specials/text-and-
	investing"?.		context/the-logic-behind-momentum-
	(a) It refers to a style of investing		investing/article67724617.ece
	wherein investors purchase assets		
	such as stocks or bonds that are		
	consistently rising in price while		
	selling assets whose prices are		
	falling.		
	(b) It refers to a style of investing		
	wherein investors buy assets when		
	they are selling at low prices, such		
	as during times of a financial		
	crisis, as assets could be found		
	selling at prices well below their		
	intrinsic value.		
	(c) It refers to a style of investing		
	that cannot generate high returns		
	that comfortably beat the		
	benchmark indices.		
	(d) It refers to a style of investing		





#### JUNE-2024

	that can cause a sustainable rise		
	or fall in prices.		
132	In relation to Article 20 of the	В	According to Article 20(1), No person can be
	Constitution of India, which of the		convicted except for the violation of an offence
	below statements is/are correct?		under the law prevalent at the time of commission
	1. It prohibits retrospective criminal		of the act charged as an offence. It prohibits
	legislation.		retrospective legislation only for Criminal laws. Any
	2. The protection against self-		retrospective increase in the penalty (or) the
	incrimination extends to both		punishment for an offence provided is valid for civil
	criminal and civil proceedings.		and tax laws and not for criminal laws.
	3. It provides immunity from double		Article 20(3) prohibits the compulsion to give self-
	jeopardy including Prosecution for		incriminating evidence only in criminal proceedings
	an offence.		and not for civil proceedings. An accused cannot be
	(a) 1 only		compelled to be a witness against himself/herself.
	(b) 1 and 3		Article 20(2) states that No person shall be
	(c) 3 only		prosecuted and punished for same offence more
	(d) 1, 2 and 3		than once which means that, this article provides
	(u) 1, 2 and 5		immunity from double jeopardy not only against
			Punishment for an offence but also against
			Prosecution.
133	Consider the following statements.	А	Unlike crude oil and crude-derived liquid fuels,
	(i) Once it has been liquefied, the		LNG spills do not require any remediation of soil,
	methane takes up much less space.		groundwater or surface waters because it
	(ii) LNG spills require bio-		evaporates immediately and dissipates quickly into
	remediation of soil.		the atmosphere.
	Which of the above is / are true		https://indianexpress.com/article/explained/expl
	w.r.t. LNG?.		ained-climate/what-is-liquified-natural-gas-
	(a) Only (i)		impact-climate-8397534/
	(b) Only (ii)		https://indianexpress.com/article/explained/expl
			ained-economics/small-scale-lng-vijaipur-fuel-





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#### JUNE-2024

<u>energy-9221867/</u>	
Petroleum / Mineral	Natural Gas
oil Found in sedimentary rocks of marine origin Formed by decomposition of tiny marine creatures, plants & vegetation under mud, silt & sand. Over the years, it	NG is <b>odorless</b> , <b>colorless</b> gas made of <b>variety of</b> <b>compounds</b> but <b>methan</b> <b>e is the most imp</b> . It is found in association with mineral oil ( <b>75% is in</b> <b>Bombay High and</b>
undergoes <b>chemical</b> <b>changes</b> to form crude oil & natural gas under the action of heat & pressure.	Bassein). NG gas 70-90% Methane, Ethane, Propane and Butane (0- 20% combined), CO2,
20 % of India's crude oil & gas demand is	<b>Oxygen,</b> <b>Nitrogen, H2S</b> and Trace gases like ( <b>A, He,</b>
produced <b>domestical</b> ly & 80 % is imported from (UAE, Saudi, Iran, Russia). Jamnagar Refineries of Reliance industries is <b>world largest</b>	Ne, Xe). 40% Goes to Chemical fertilizers, 30% (Power generation) and 10% LPG.
	<ul> <li>oil</li> <li>Found</li> <li>in sedimentary</li> <li>rocks of marine</li> <li>origin</li> <li>Formed by</li> <li>decomposition of</li> <li>tiny marine</li> <li>creatures, plants &amp;</li> <li>vegetation under</li> <li>mud, silt &amp; sand.</li> <li>Over the years, it</li> <li>undergoes chemical</li> <li>changes to form</li> <li>crude oil &amp; natural</li> <li>gas under the action</li> <li>of heat &amp; pressure.</li> <li>20 % of India's</li> <li>crude oil &amp; gas</li> <li>demand is</li> <li>produced domestical</li> <li>Iy &amp; 80 % is</li> <li>imported from (UAE,</li> <li>Saudi, Iran, Russia).</li> <li>Jamnagar</li> <li>Refineries of</li> <li>Reliance industries</li> </ul>





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#### JUNE-2024

	[	
	<b>HPCL</b> is a Navratna	
	company. It has 2	
	refineries - Mumbai	
	and	
	Vishakhapatnam.	
	Compressed Natural	Liquified Natural Gas
	Gas	
	CNG is obtained	LNG is produced
	by <b>compressing NG</b>	by cooling NG to - 162
	under high	degree C in Cryogenic
	pressure. Reduces	stage through Liquifacti
	its volume.	on. Kept in liquid
	Advantages	form to increase
	Viable alternative fuel	quantities of NG that can
	(Storage cylinders)	be stored in tanks.
	(Storage cyminers)	Advantages
	Cheaper and <b>reduce</b>	Easy to transport.
	emissions.	Easy to transport.
	Versatile and <b>low</b>	Helps in electrification.
	storage costs.	Clean burning
	Cleaner solution	fuel, <b>smoke free</b> , less
	from diesel	CO2 than Coal, <b>no black</b>
	Disadvantages	carbon.
	Explosion ka risk.	Disadvantages:
	Infra augment peeded	Explosion and Infra.
	Infra support needed.	Application: Business,
	Applications: Buses,	Industry, Power
	Trucks.	generation, Cooking.
	>90% is Methane	INC tolog loss stores
	and 3-4% is Ethane.	LNG takes less storage
	CNG is also <b>very</b>	space than CNG.





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#### JUNE-2024

			light, so if there is a	LPG
			leak, it will <b>dissipate</b>	is a byproduct derived
			rapidly into air but	while extracting crude
			LPG will settle on	petroleum. It
			ground. This makes	has <b>Propane and</b>
			CNG a safer choice	Butane. It
			over LNG. CNG	produces CO2, NOx and
			releases less GHGs.	<b>CO</b> and is much cleaner
			Hydrogen Enriched	than Gasoline. Heavier
			<b>Compressed Natural</b>	than air hence it will
			Gas (H-CNG)	settle down
			The <b>blending of</b>	
			hydrogen with	
			<b>CNG</b> provides a	
			blended gas termed	
			as HCNG. HCNG	
			combines the	
			advantages of both	
			hydrogen and	
			methane.	
			Delhi - the first	
			<b>city</b> in the country to	
			roll out <b>HCNG</b>	
			<b>buses</b> for public	
			transport from	
			November 2020.	
			This is a step towards	
			combating air	
			pollution.	
134	1. India permits dual citizenship	A	https://economictimes.in	ndiatimes.com/nri/migrat
	under specific circumstances.		e/can-indians-have-dual	-citizenship-heres-the-
			fine-print/articleshow/10	00406075.cms?from=mdr
		1		





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#### JUNE-2024

	2. India is a "coming together"		Coming together	Holding together
	federation.		federation	federation
	<ul> <li>federation.</li> <li>Which of the statements given above is/are correct?</li> <li>(a) 1 only</li> <li>(b) 2 only</li> <li>(c) Both 1 and 2</li> <li>(d) Neither 1 nor 2</li> </ul>		In this type of federation, separate sovereign states connect together to become a greater government.	federation In this type of federation, a broad force or country agrees to split its powers between the constituent states and the central government. There is no pooling of authority and retention of nationality in such a federation.
			Individual States combine their sovereign rights and assets to form a stronger nation.	
			In this federation, the individual states have sole authority. The ultimate result is a more stable nation.	In this federation, the central government has more authority than the states.
			Examples are the USA, Australia, Switzerland	Examples are India, Spain, Belgium
135	With reference to the Cabinet	D	https://iasgoogle.com/	editorial/the-cabinet-
	Mission, consider the following		mission-1946	
	statements:			
	1. Its objective was to obtain an			
	agreement with the Indian leaders as to the framing of a constitution			
	for India.			
	2. It proposed the creation of a			





#### JUNE-2024

	<ul> <li>full-fledged Pakistan.</li> <li>3. It proposed a three-tier</li> <li>federation for India.</li> <li>Which of the above given</li> <li>statements is/are correct?.</li> <li>(a) 1 only</li> <li>(b) 1 and 2 only</li> <li>(c) 1, 2 and 3</li> <li>(d) 1 and 3 only</li> </ul>		
136	Consider the following statements w.r.t. Hepatitis: 1. Hepatitis A and E are transmitted through contaminated food and water. 2. Hepatitis B can be prevented by medication. 3. Hepatitis C can be cured with vaccination. 4. Hepatitis D can only infect those who are already infected with hepatitis B. Which of the statements given above is/are correct?. (a) 1 & 4 (b) 2 & 3 (c) 1, 2 & 3 (d) 2 & 4	A	https://indianexpress.com/article/explained/expl ained-health/global-hepatitis-report-2024-world- health-organisation-hepatitis-b-tuberculosis-covid- 19-tb-deaths-globally-9270443/
137	(1) Effective Exchange Rate is an index of the simple average of the	A	Effective Exchange Rate is an index of the weighted average of the rupee's exchange rates vis-à-vis the





#### JUNE-2024

	rupee's exchange rates vis-à-vis the		currencies of India's major trading partners.
	currencies of India's major trading		https://indianexpress.com/article/explained/expl
	partners.		ained-economics/rupee-modi-government-
	(2) Real effective exchange rate does		<u>9285946/</u>
	not factor in inflation.		
	(3) An increase in Nominal Effective		
	Exchange Rate indicates the		
	appreciation of rupee.		
	Which of the above is/are correct?.		
	(a) Only 3		
	(b) Only 2 & 3		
	(c) Only 1 & 3		
	(d) 1, 2 & 3		
138	Consider the following	А	Constitutional provision regarding customary
	statements:		address:
	1. Article 176 of the constitution		• The origin of the practice of customary address
	provides for customary address by		can be traced to the Government of India Act,
	Governor in State assembly.		1919.
	2. Governor has no discretion in		• Article 87: President shall address both
	reading out the text of the		houses of the Parliament assembled together at the
	address.		commencement of the first session after each
	Which of the following statements		general election to the House of People and at the
	is/are correct?		commencement of the first session of each year.
	(a) Only 1		· Provisions regarding the address shall be made
	(b) Only 2		by the respective houses i.e. Lok Sabha and Rajya
	(c) Both 1 and 2		Sabha respectively.
	(d) Neither 1 Nor 2		• Article 176: Governor shall address the state
			legislative assembly and in case of state legislative
			council, both the houses together.





#### JUNE-2024

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by the respective houses.

# Growing conflict in reading out the customary address:

 Kerala Governor Arif Mohammad Khan modified the portions of the text of customary address on his discretion. Meanwhile, this has been the case in many non -BJP ruled states like West Bengal and Tamil Nadu.

• **Article 163**– There shall be a Council of Ministers with the Chief Minister at the head to aid and advise the Governor in the exercise of his functions, except in so far as he is by or under this Constitution required to exercise his functions or any of them in his discretion.

• If any question arises whether any matter is or is not a matter required to act in his discretion, the decision of the Governor in his discretion shall be final, and the validity of anything done by the Governor shall not be called in question on the ground that he ought or ought not to have acted in his discretion.

• But, Governor has used the above discretion provision in exercising discretion in delivering customary address.

Important Cases related to Customary
 Address

In Yogendra Singh Handa vs State of
 Rajasthan (1967), Rajasthan High Court held that
 some portion read by governor was good enough to
 deem the whole address as read (Context: Then
 Rajasthan governor did not read the full
 address).





#### JUNE-2024

			· In the Abdul Ghafoor Habibullah case, Kolkata
			high court held that governor cannot decline to
			deliver his address and refuse to fulfil his
			constitutional duty.
139	Who is the founder of the Charvaka	D	https://nios.ac.in/media/documents/SecICHCour
	School of philosophy?.		/English/CH.08.pdf
	(a) Kumarila Bhatta		
	(b) Sabar Swami		
	(c) Jaimini		
	(d) Brihaspati		
140	Consider the following	D	https://indianexpress.com/article/explained/expl
	statements:		ained-climate/sea-level-rise-9284789/
	1. Thermal expansion of water		
	contributes to sea level rise.		
	2. Sea level rise leads to saltwater		
	contamination of freshwater		
	aquifers.		
	3. Weakening of El Niño most		
	likely slows down the rate of sea		
	level rise.		
	Which of the above statements		
	is/are correct?		
	(a) 1 only		
	(b) 3 only		
	(c) 1 and 2 only		
	(d) 1, 2 and 3		
141	Who composed "Dohas"?	A	https://nios.ac.in/media/documents/SecICHCour
	(a) Kabir		/English/CH.09.pdf





#### JUNE-2024

	(b) Ramananda		
	(c) Jayadev		
	(d) Namdeva		
142	Consider the following	В	· Green ammonia, also known as sustainable or
	statements:		renewable ammonia, is an innovative and eco-
	1. Green Ammonia is produced by		friendly form of ammonia production that is
	the Haber process.		gaining prominence in the global energy landscape.
	2. Ammonia cannot be used in a		$\cdot$ It is produced using renewable energy sources,
	fuel cell.		such as wind, solar, or hydropower, and serves as
	Which of the statements given		a promising energy carrier with applications in
	above is/are incorrect?		various sectors, including agriculture,
	(a) 1 only		transportation, and energy storage.
	(b) 2 only		Production of Green Ammonia
	(c) Both 1 and 2		$\cdot$ Haber-Bosch Process: Traditional ammonia
	(d) Neither 1 nor 2		production relies on the energy-intensive Haber-
			Bosch process, which consumes a significant
			amount of natural gas and emits substantial
			greenhouse gases (GHGs), mainly carbon dioxide
			(CO2).
			$\cdot$ Electrolysis: Green ammonia production involves
			an alternative approach called "electrolysis," which
			utilizes renewable electricity to split water (H2O)
			into hydrogen (H2) and oxygen (O2). This hydrogen
			is then used to synthesize ammonia (NH3) through
			the Haber-Bosch process, but with zero carbon
			emissions.
			$\cdot$ Renewable Energy Sources: The key to green
			ammonia production is the use of renewable
			energy sources, such as solar, wind, or
			hydropower, to power the electrolysis process. This





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#### JUNE-2024

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	ensures that the entire production cycle is
	emissions-free.
	Applications of Green Ammonia
	$\cdot$ Agriculture: Green ammonia can serve as a
	sustainable and carbon-neutral source of fertilizer.
	It can replace traditional ammonia-based
	fertilizers, which are carbon-intensive to produce,
	thereby reducing the carbon footprint of
	agriculture.
	$\cdot$ Energy Storage: Green ammonia can be used as
	an energy carrier and energy storage medium.
	Hydrogen, a component of ammonia, can be
	extracted when needed to generate electricity or
	serve as a fuel for fuel cells, making it a versatile
	energy storage solution.
	$\cdot$ Transportation: Ammonia can be used as a clean
	and efficient fuel in the transportation sector. It
	can power fuel cell vehicles or be utilized in
	ammonia-powered combustion engines, reducing
	emissions.
	$\cdot$ Industrial Processes: Green ammonia can replace
	conventionally produced ammonia in various
	industrial processes, such as refrigeration,
	chemical manufacturing, and the production of
	explosives.
	Advantages of Green Ammonia
	$\cdot$ Carbon Neutrality: The primary advantage of
	green ammonia is its carbon neutrality. By using
	renewable energy sources for production, it
	eliminates carbon emissions associated with

traditional ammonia production.





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#### JUNE-2024

			• Versatility: Green ammonia can be used as a
			fertilizer, energy carrier, and energy storage
			medium, making it a versatile and multi-purpose
			resource.
			· Reduced Dependency on Fossil Fuels: It reduces
			reliance on fossil fuels for ammonia production,
			contributing to energy independence and
			sustainability.
			$\cdot$ Clean Transportation: As a fuel, green ammonia
			can power vehicles with lower emissions, reducing
			air pollution and greenhouse gas emissions.
			Challenges and Considerations
			• Energy Efficiency: Electrolysis processes need to
			become more energy-efficient to make green
			ammonia production economically viable.
			• Infrastructure: Developing the necessary
			infrastructure for green ammonia production,
			storage, and transportation is a significant
			challenge.
			· Costs: The initial investment in renewable energy
			sources and electrolysis equipment can be high,
			although costs are expected to decrease as
			technology advances.
143	Who is charged with destroying the	D	https://www.bbc.com/travel/article/20230222-
	glorious Buddhist University of		nalanda-the-university-that-changed-the-world
	Nalanda in Bihar, and is said to		
	have mistaken it for a military		
	camp?.		
	(a) Muhammad Ghori		
	(b) Qutb-ud-din Aibak		





#### JUNE-2024

	(c) Iltutmish		
	(d) Bhakthiyar Khalji		
144	Consider the following	С	https://indianexpress.com/article/explained/expl
	Statements.		ained-sci-tech/us-bill-banning-tiktok-9287878/
	1. Article 47 can be used to justify		
	a restriction on citizens' rights		
	under Article 19(1)(g).		
	2. Article 47 of the Constitution		
	places a duty on the State to		
	"raise the level of nutrition and		
	the standard of living and to		
	improve public health".		
	Which of the above statement		
	is/are correct?		
	(a) 1 only		
	(b) 2 only		
	(c) Both 1 and 2		
	(d) Neither 1 nor 2		
145	Which of the following statements	D	https://www.businesstoday.in/opinion/columns/s
	is/are true w.r.t. the Carbon Credit		tory/indias-proposed-carbon-credit-trading-
	Trading Scheme of India?.		scheme-what-it-is-why-it-matters-and-what-to-
	1. It takes into account the		expect-424307-2024-04-04
	mandatory implementation for the		
	'obligated' entities but excludes		
	voluntary markets.		
	2. It allows Indian companies to		
	trade Carbon credit certificates in		
	domestic as well as foreign markets.		
	(a) 1 only		
	(b) 2 only		





#### JUNE-2024

	(c) Both 1 and 2		
	(d) Neither 1 nor 2		
146	Consider the following statements	Α	https://indianexpress.com/article/explained/e
	w.r.t. Hydrofluorocarbons:		xplained-global/smuggling-greenhouse-gases-
	Statement-I: They have zero		<u>case-us-9203459/</u>
	<b>Ozone Depletion Potential.</b>		HFC, Ammonia, and Carbon dioxide do not
	Statement II: They have no		cause depletion of Ozone.
	chlorine.		Hydrofluoroolefins (HFOs) are the fourth-
	Which one of the following is		generation of fluorine-based gases.
	correct in respect of the above		HFOs are mainly used as refrigerants, blowing
	statements?		agents, propellants and solvents. As a refrigerant,
	(a) Both Statement-I and		you can find HFOs in heat pumps, air conditioning
	Statement-II are correct and		system and commercial cooling installations.
	Statement- II is the correct		As the role of Hydrofluorocarbons (HFCs) is
	explanation for Statement- I		phased-down, HFOs can help ensure systems
	(b) Both Statement-I and		maintain their safety and energy efficiency while
	Statement-II are correct and		still being an economical alternative.
	Statement- II is not the correct		Additionally, because HFOs are already decoupled
	explanation for Statement-I		from natural gas, they are an ideal greener
	(c) Statement I is correct but		alternative to HFCs. HFOs have zero ODP (Ozone
	Statement II is incorrect		Depletion Potential) and a very low GWP (Global
	(d) Statement I is incorrect but		Warming Potential).
	Statement II is correct		
147	Which of the following statements	С	Dashavtar temple is one of the earliest examples of
	are correct regarding Dashavtar		temple architecture. It was made during Gupta
	Temple' of Deogarh?.		Period and is dedicated to Lord Vishnu. It is the
	1. It was built during Gupta period		first pyramidal shaped temple in India. It is the
	and is dedicated to Lord Vishnu.		first temple with a Shikhar (Tower). It is the first
	2. It is the first pyramidal shaped		temple to have a mandapa. It is made of Stone.
	temple of India.		Garbha griha (the room where chief diety is kept) –





#### JUNE-2024

			11 1 1 1
	3. It is the first brick temple of India.		was generally made dark and narrow to keep its
	(a) 1, 2 and 3		mystical value intact.
	(b) 2 only		The first brick temple built in India is Bhitargaon's
	(c) 1 & 2 only		Temple.
	(d) 2 &3 only		
148	Which one of the following is the odd	D	Elephanta Cave (Maharashtra) - The Elephanta
	one out?		Caves are a group of Hindu rock-cut temples
	(i) Udayagiri cave		located on an <b>island in Mumbai Harbor</b> ,
	(ii) Ellora caves		Maharashtra, India. It was built during the reign of
	(iii) Elephanta cave		the <b>Rashtrakuta dynasty</b> not Gupta Period.
	(iv) Bagh cave		Others the rock-cut cave temples of <b>Gupta Period</b> .
	<ul> <li>(a) iii</li> <li>(b) i</li> <li>(c) ii</li> <li>(d) iv</li> </ul>		Udaigiri and Khandagiri caves (Odisha) are
			situated on two adjacent hills, Udayagiri and
			Khandagiri mentioned as Kumari Parvata in the
			Hathigumpha inscription. These caves were
			carved out during the reign of King Kharvela for
			Jain monks.(1st century BC)
			Udayagiri Caves (MP) - The Udayagiri Caves are
			twenty rock-cut caves near Vidisha, Madhya
			<b>Pradesh</b> primarily denoted to Hindu gods Vishnu
			and Shiva from the early years of the 5th century
			CE. They are the only site that can be verifiably
			associated with a Gupta period monarch from its
			inscriptions
			Ajanta and Ellora Caves (Maharashtra) - The
			Ajanta and Ellora Caves are a group of Buddhist,
			Hindu, and Jain rock-cut temples located near
			Aurangabad in Maharashtra, India. They were built
			between the <b>2nd century BCE</b> and 10th century
			CE, with the Gupta period (4th-5th century CE)
			being one of the major phases of construction.
1			ı





#### JUNE-2024

			Bagh (Madhya Pradesh) - The Bagh Caves are a group of ancient Buddhist rock-cut temples located in the Dhar district of Madhya Pradesh, India. They were built in the 5th-6th century CE, during the Gupta period. https://www.deccanherald.com/india/karnatak a/great-indian-bustards-may-get-a-karnataka- nest-1240012.html
149	Consider the following statements w.r.t. Meguti Temple. 1. It is a Jain temple. 2. It is well known for its Aihole Prashasti inscription. Which of the statements given above is/are correct? (a) 1 only (b) 2 only (c) Both 1 and 2 (d) Neither 1 nor 2	С	<ul> <li>https://timesofindia.indiatimes.com/city/hyderab ad/archaeological-marvels-badami-chalukya- temples-and-inscriptions-discovered-along-river- krishna/articleshow/107919789.cms</li> <li>The only dated monument in Aihole, the Meguti Temple was built atop a small hill in 634 AD.</li> <li>The Aihole Inscription, also known as the Aihole Prashasti, is a nineteen-line Sanskrit inscription in Kannada script at Meguti Jain temple in Aihole, Karnataka, India.</li> <li>The Megudi temple is historically important for its Aihole Prashasti inscription. A slab on the outer east side wall of the temple is inscribed in the Sanskrit language and Old Kannada script.</li> <li>It is dated to Saka 556 (634 CE) and is a poem by Jain poet Ravikirti. He was in the court of king Pulakeshin II.</li> <li>This inscription opens with the equivalent of Jai Jinendra salutation in Sanskrit.</li> </ul>
150	Which of the following statements is/are correct w.r.t. Khooni	A	Khooni Bhandara, Burhanpur • Khooni Bhandara is an underground water





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#### JUNE-2024

Bhandara?.	management system comprising eight waterworks
1. It is an underground water	built in the historical city of Burhanpur, Madhya
management system comprising	Pradesh.
eight waterworks.	· These water systems in Burhanpur
2. It was built by Palas.	were constructed in 1615 CE.
Select the correct answer using the	· Khooni Bhandara consists of 103 kundis (well-
code given below:	like storage structures) constructed in a row. They
(a) 1 only	are interconnected to each other through a 3.9 km
(b) 2 only	long underground marble tunnel. This
(c) Both 1 and 2	system checks the flow of rainwater from the
(d) Neither 1 nor 2	Satpura hills towards the river Tapti.
	$\cdot$ The design is based on the simple law of gravity.
	· The technique used in Burhanpur was taken
	from the Persian Qanta systems of Iran and Iraq by
	the Mughals as technologies of public utility used
	to be imported from Persia for use in India during
	their times.
	$\cdot$ It provided water to the entire city for as long as
	300 years before it collapsed in 1977.
	$\cdot$ The hint of red colour in this mineral-rich
	water gave it the name khooni (bloody).
	https://www.deccanherald.com/india/madhya-
	pradesh/unesco-puts-6-new-madhya-pradesh-
	destinations-on-tentative-list-of-world-heritage-
	<u>sites-2944661</u>





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### OUR TEST 9 QN.NO.56 TEST 18, QN.NO.91

Consider the following statements

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1. Thickness of Troposphere at the equator. 2. Thickness of Troposphere at the poles. Which of the following is / are true?. (a) 1>2 (b) 1=2 (c) 1<2 (d) 1 = Four times 2 The bulk of heat energy transferred in the troposphere is done by (a) Convection....

### UPSC PRELIMS 2024 DELIVERED 70+ QUESTIONS SINCE 2005

Statement-I: Thickness of the troposphere at the equator is much greater as compared to poles. Statement-II: At the equator, heat is transported to great heights by strong convectional currents.

Which one of the following is correct in respect of the above statements?

- (a) Both ..explains (b) Both .. does not ...
- (c) Statement-I is correct, ..
- (d) Statement-I is incorrect, ....

# TEST BATCH FROM JULY 14

OUR TESTS PROVIDE ONLINE (ALL INDIA) / OFFLINE (CLASSROOM) OXYGEN LIKE TROPOSPHERE TOTAL - 30 TESTS

(25 SECTION WISE + 05 FULL LENGTH)

PRELIMS 2025

CLEAR PRELIMS 2025! THAT'S IT.

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