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	QUES	TIONS
1.	 Consider the following statements : Sudarshan Setu, also known as the Okha-Beyt Dwarka Signature Bridge, is India's longest cablestayed bridge. Bet Dwarka is the largest island off the Gujarat coast, and Union Territory of Diu, the second largest. Sudarshan Setu is the longest bridge in India and also the longest sea bridge in the country. How many of the statements given above is/are not correct? Only one B. Only two 	How many of the statements given above are correct?A.Only OneB.Only TwoC.All ThreeD.None6.The Black Sea is bordered by which of the following?1.Ukraine2.1.Ukraine2.Russia3.Georgia4.Türkiye5.BulgariaSelect the correct answer using the code given below:A.1 and 2 onlyB.2, 3, and 4 onlyC.1, 3, 4 and 5 onlyD.1, 2, 3, 4 and 51
	C. All three D. None	7. Consider the following statements:
2.	Consider the following countries: 1. Argentina 2. Brazil 3. Pakistan How many of the above are members of Cairns Group? A. Only one B. Only two C. All three D. None of the above	 Statement I: While the majority of the world's oceans are experiencing warming, relatively small regions, such as the subpolar North Atlantic Ocean, are experiencing cooling. Statement II: The slowdown of the Atlantic Meridional Overturning Circulation (AMOC), a system of ocean currents, results in the cooling of the ocean. Which one of the following is correct in respect of the
3.	 Consider the following statements: 1. The Dardanelles strait connects the Black Sea to the Sea of Marmara. 	above statements? A. Both Statement-I and Statement-II are correct, and Statement-II is the correct explanation for
	 The Kerch Strait connects the Black Sea to the Sea of Azov. Ukraine, Moldova, and Russia are among the bordering countries of the Black Sea. How many of the statements given above is/are correct? 	 Statement-I. B. Both Statement-I and Statement-II are correct, and Statement-II is not the correct explanation for Statement-I. C. Statement-I is correct, but Statement-II is incorrect. D. Statement-I is incorrect, but Statement-II is correct.
	A. Only one B. Only two	8. Regarding the Democratic Republic of Congo (DRC),
4.	C. All three D. None Regarding Ganga, consider the following statements:	 consider the following statements: 1. It is 2nd largest country in Africa and the 11th largest in the world.
	 It originates as Bhagirathi from Gangotri Glacier, Uttarakhand. At Devprayag, where Alaknanda joins Pindar, the river acquires the name Ganga. Which of the statements given above is/are correct? 1 Only B 2 Only Both 1 and 2 D. Neither 1 nor 2 	 Kinshasa, the capital of the Democratic Republic of the Congo, sits on the Congo River, the only African river that twice intersects the equator. 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 9. Regarding Bhutan, consider the following statements:
5.	 Regarding the Shipra (Khipra) River, consider the following statements: 1. It is a tributary of the Chambal River in Madhya Pradesh and flows across the Malwa Plateau. 2. It originates in the Vindhya Range from a hill called Kakri-Tekdi. 3. Khan and Gambhir are its major tributaries. 	 Bhutan, a landlocked country, is situated between India and China. The longest river in Bhutan is the Manas River. India is Bhutan's largest trading partner, accounting for over 80% of Bhutan's total imports and exports. How many of the statements given above are correct? Only One Only Two All Three None



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10.	Libya is bordered by which of the follo 1. Egypt	owing countries:	Regarding the Pradhan the following statement	Mantri Mudra Yojana, consider 's:
i			-	
1	2. Sudan		-	ernment's flagship initiative to
!	3. Chad			e credit to micro and small
i i	4. Niger			g to formalize their financial
i i	5. Algeria		inclusion or "fund the	ne unfunded."
!	Select the correct answer using the co	de given helow:	2. Indian citizens with	business plans for non-farm
i			income activities un	der Rs 10 lakh can seek MUDRA
		and 3 only	loans.	
!	C. 1,3,4 and 5 D. 1,2	2, 3, 4 and 5	Which of the statement	s given above is/are correct?
11.	Consider the following statements:			
	Statement-I: The border between Isra	al and lordan is	A. 1 Only	B. 2 Only
1 1 1	known as the Blue Line.		C. Both 1 and 2	D. Neither 1 nor 2
i	Statement-II: Blue Line was set by the		Consider the following s	
!	in 2000 after Israel withdrew its militar	ry from southern		e (MHW) is an extreme event
1	Lebanon.		when a sea region's	surface temperature rises 3-4°C
i	Which one of the following is correct	in respect of the	above its average fo	r at least five days.
!	above statements?		2. The Extreme Event	t Attribution (EEA) technique
i	A. Both Statement-I and Statement-II	I are correct, and		human-induced climate change
!	Statement-II is the correct e	xplanation for		eme weather events.
i	Statement-I.			given above is/are not correct?
!	B. Both Statement-I and Statement-II	l are correct, and		-
i	Statement-II is not the correct	explanation for	A. 1 Only	B. 2 Only
!	Statement-I.		C. Both 1 and 2	D. Neither 1 nor 2
1 1 1	C. Statement-I is correct, but StatemeD. Statement-I is incorrect, but Statem		Regarding the landlocke following statements:	d region " Kosovo", consider the
!				
¦ 12.	Consider the following countries:			oy Romania, Macedonia, Serbia,
!	1. Iceland		and Montenegro.	
ł	2. Latvia		2. Its capital and large	st city is Pristina
:	3. Lithuania		3. India has not recogn	ised Kosovo as an independent
-	How many of the above are the mer	mbers of Nordic-	country.	
i	Baltic Cooperation?		How many of the staten	nents above are correct?
	A. Only one B. On	lv two	A. 1 and 2 only	B. 2 only
	C. All three D. No		-	,
-	c. All three D. No		C. 2 and 3 only	D. 1, 2 and 3
13.	With reference to Atmospheric Rive following statements:	er, consider the	Regarding Lakshadweep statements:	Island, consider the following
1 1	1. The atmospheric river is a long,	narrow band of		orising 36 islands, is the largest
Ì	moisture-filled air that transp	orts significant	Union Territory of Ir	
!	amounts of water vapor from the	tropics to higher	-	
i i	latitudes.			nder the control of the Centre
1	2. The "Pineapple Express" is a well-	-known example	through an administ	
!	of atmospheric river storms that br		3. The entire Lakshadv	veep group of islands has been
i i	to the US East Coast, particularly N		declared as an organ	nic agricultural area.
!	Which of the statements given above		How many of the above	statements are correct?
	A. 1 only B. 2 c		A. Only one	B. Only two
!			-	
 	C. Both 1 and 2 D. No	one of the above	C. All three	D. None
1				

,	
 18. Consider the following statements: Statement-I: Atlantic Meridional Overturning Circulation (AMOC) plays a crucial role in redistributing heat globally. Statement-II: AMOC is a large-scale oceanic circulation system that transports warm surface waters from the tropics to the northern latitudes and returns cold, deep waters from the North Atlantic back towards the equator. Which one of the following is correct in respect of the above statements? 	 The active rock glaciers could lead to the formation of thermokarst features. How many of the above statements are not correct? A. Only one B. Only two C. All three D. None 22. Regarding the Jhelum River, consider the following statements: It originates in Tibet near Lake Mansarovar. It is a tributary of the Indus River. Its primary tributary is the Kishenganaga River.
 A. Both Statement-I and Statement-II are correct, and Statement-II is the correct explanation for Statement-I. B. Both Statement I and Statement II are correct and 	Which of the statements given above is/are correct?A. 1 and 2 onlyB. 2 and 3 onlyC. 1 and 3 onlyD. 1, 2 and 3
 B. Both Statement-I and Statement-II are correct, and Statement-II is not the correct explanation for Statement-I. C. Statement-I is correct, but Statement-II is incorrect. D. Statement-I is incorrect, but Statement-II is correct. 	 23. Which of the following features is NOT typically associated with Western Disturbances? A. Widespread snowfall in the Himalayas B. Rainfall and thunderstorms in the plains
19. Which of the following statements about Humboldt's enigma is/ are correct?	C. Rapid drop in temperature especially at night across North India
 Humboldt's enigma questions the conventional notion that tropical regions, fueled by ample sunlight, are the primary centres of biodiversity on Earth. 	 D. Formation of tropical cyclones 24. With reference to the Major and Minor Ports, consider the following statements:
 India's diverse mountain ranges, except for the Himalayas, serve as ideal settings to probe Humboldt's enigma. 	 New Mangalore port is one of the major ports in India. All the Minor Ports are governed under the Indian
Select the correct answer using the code given below: A. 1 only B. 2 only	Port Act, 1908 and are owned and managed by both the State and Central Governments.
C. Both 1 and 2 D. Neither 1 nor 2	Which of the statements givem above is/are correct?
20. Consider the following statements:	A. 1 only B. 2 only
 The Panama Canal links the Atlantic and Pacific Oceans. 	 C. Both 1 and 2 D. Neither 1 nor 2 25. Which among the following is a part of the Lithium triangle along with Argenting and Chila?
 Ethiopia, Egypt, Saudi Arabia, Sudan, Eritrea, and Yemen are the countries that border the Red Sea. Which of the statements given above is/are correct? 	triangle along with Argentina and Chile? A. Brazil B. Columbia C. Bolivia D. Australia
A. 1 onlyB. 2 onlyC. Both 1 and 2D. Neither 1 nor 2	26. Consider the following pairs: Region Country
21. With reference to the 'Thermokarst', consider the following statements:1. This is a type of termin that is shored by	1. Sistan ProvinceA. Iran2. BalochistanB. Pakistan
 This is a type of terrain that is characterized by irregular surfaces of marshy hollows and small hummocks. 	3. MaribC. AfghanistanWhich of the pairs given above is/are correctly matched?
 The Batagaika crater, an example of thermokarst, is the biggest permafrost crater in the world. 	A. 1 only B. 1 and 2 only C. 2 and 3 only D. 1, 2 and 3
!	



3. Tanzania

How many of the above share the shoreline of Lake Victoria ?

- A. Only one B. Only two
- C. All three D. None of the above
- **28.** With reference to the Majuli Island, consider the following statements:
 - 1. It is located in Arunachal Pradesh.
 - 2. It is recognised as the second largest river island in the world.
 - 3. The island is surrounded by the Brahmaputra River and its tributaries.

How many of the above statements are correct?

- A. Only one B. Only two
- C. All three D. None of the above
- 29. Consider the following statements:

Statement-I: The South China Sea is a marginal sea of the Western Pacific Ocean which is bordered by Brunei Darussalam, Malaysia, Indonesia, the Philippines among others.

Statement-II: South China Sea is connected by the Taiwan Strait with the Philippine Sea and by the Luzon Strait with the East China Sea.

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

- A. Both Statement-I and Statement-II are correct, and Statement-II is the correct explanation for Statement-I.
- B. Both Statement-I and Statement-II are correct, and Statement-II is not the correct explanation for Statement-I.
- C. Statement-I is correct, but Statement-II is incorrect.
- D. Statement-I is incorrect, but Statement-II is correct.

30. Consider the following countries:

- 1. Burkina Faso 2. Côte d'Ivoire
- 3. Sierra Leone

How many of the above are the founding members of ECOWAS (Economic Community of West African States)?

- A. Only one B. Only two
- C. All three D. None of the above
- **31.** Consider the following statements:

Statement-I: India Meteorological Department (IMD) is the National Meteorological Service of the country and the principal government agency in all matters relating to meteorology and allied subjects. **Statement-II:** It warns against severe weather phenomena like tropical cyclones, norwesters, dust storms, heavy rains and snow, cold and heat waves, etc. Which one of the following is correct in respect of the above statements?

- A. Both Statement-I and Statement-II are correct, and Statement-II is the correct explanation for Statement-I.
- B. Both Statement-I and Statement-II are correct, and Statement-II is not the correct explanation for Statement-I.
- C. Statement-I is correct, but Statement-II is incorrect.
- D. Statement-I is incorrect, but Statement-II is correct.
- **32.** Regarding 'Cobo Varde', consider the following statements:
 - 1. It is a Malaria-free country.
 - 2. It is a group of islands situated off the east coast of Africa.
 - 3. The majority of the population in Cabo Verde is of mixed European and African descent.
 - How many of the statements given above is/are correct?
 - A. Only one B. Only two
 - C. All three D. None
- **33.** Consider the following statements:
 - 1. The Indian Tsunami Early Warning Centre (ITEWC) is a part of the Indian National Centre for Ocean Information Services (INCOIS), which is based in Hyderabad.
 - 2. ITEWC monitors sea level changes near the epicentral region and reports in case of a tsunami threat.
 - 3. Epicentre is a point on the Earth's surface directly above the hypocenter or focus of an earthquake.
 - How many of the statements given above are correct?
 - A. Only one B. Only two
 - C. All three D. None
- **34.** With reference to Marapi Volcano, consider the following statements:
 - 1. Mount Marapi is an active volcano located in Malaysia.
 - 2. The last time the Mount Marapi volcano erupted was in 1979 and it has remained inactive since then.

Which of the following statements is/are correct?

- A. 1 only B. 2 only
- C. Both 1 and 2 D. Neither 1 nor 2

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35.	Regarding Kenya, consider t	he following statements:			ew Delhi, it is also one of the six		
 	1. It is located in West Afri	ca.	Regional Specialized Meteorological Centres of the				
	2. Lake Turkana, the world's largest desert lake, passes			World Meteorologic	-		
	through Kenya.				/s given above is/are correct?		
	Which of the statements give			A. 1 only	B. 2 only		
, , ,	A. 1 Only	B. 2 Only		C. Both 1 and 2	D. Neither 1 nor 2		
 	C. Both 1 and 2	D. Neither 1 nor 2	40.	Consider the following	g statements about Antarctic		
36.	With reference to factors aff	-		Circumpolar Current (A	-		
	consider the following state			1. ACC links the Atlanti	c, Pacific and Indian Oceans and		
	1. During the summer mor			is the primary mea	ins of inter-basin exchange of		
		its up rapidly, leading to the sure system and monsoon		heat.			
	winds in India.	sure system and monsoon		2. The current flows	s from west to east around		
	2. The Thar Desert, also k	nown as the Great Indian		Antarctica.			
1 1 1		ctor in the formation of		Which of the statement	s given above is/are correct?		
1 1 1	monsoon winds in India			A. 1 Only	B. 2 Only		
	3. The Arabian branch of t			C. Both 1 and 2	D. Neither 1 nor 2		
	parallel to the Thar Dese in the nearby regions.	rt, leads to very little rainfall	41.	Regarding Bhutan, cons	ider the following statements:		
	How many of the statem	ents given above are not			ounced plans to build a massive		
	correct ?				known as the Gelephu Project.		
	A. Only one	B. Only two		2. Bhutan shares a b	order with four Indian states		
	C. All three	D. None		namely West Benga	l, Tripura, Manipur, and Assam.		
37.	Regarding the Gulf of Ade	n, consider the following		Which of the statement	s given above is/are correct?		
	statements:	,		A. 1 Only	B. 2 Only		
	A. It is situated between Ye			C. Both 1 and 2	D. Neither 1 nor 2		
1 1 1	the Arabian Peninsula a		42.	Consider the following o	countries:		
1 1 1	B. It connects the Red Sea			1. Iran	2. Saudi Arabia		
	Strait of Bab el Mandeb			3. Yemen	4. Qatar		
	Which of the statements giv				border the Persian Gulf?		
	A. 1 OnlyC. Both 1 and 2	B. 2 Only D. Neither 1 nor 2		A. Only one	B. Only two		
				C. Only three	D. All four		
38.	Consider the following pairs			-			
	Volcanic Region	Country	43.		aiga Antelope", consider the		
	1. Mt. Ararat	Turkey		following statements :	is a large nemedie migratem		
 	2. Kamchatka Peninsula	Russia			is a large, nomadic, migratory across the Eurasian Steppe.		
	3. Eyjafjallajokull	Iceland			chstan, Mongolia, the Russian		
	How many of the above pai	B. Only two pairs			nistan, and Uzbekistan.		
	A. Only one pairC. All three pairs	D. None of the pairs			nsists of flat open areas covered		
 	-	-			egetation, allowing animals to		
i 39.	Consider the following sta			run quickly.	-		
	Meteorological Department 1. It works as an agency of t			How many of the statem	ents given above is/are correct?		
		nge of the Government of		A. Only one	B. Only two		
	India.	<u> </u>		C. All three	D. None		
¦							

Which of the following are stations at Antarctica?	ndia's operational research	48.			canoes, consider the follow
1. Maitri	2. Bharati		1. \	Volcanic activity is	s linked to the movement a
-	sing the code given below: B. 2 only D. 1, 2 and 3		2. / 	Active volcanoes e located in the Pac New Zealand, South	rupt frequently and are mo ific Ring of Fire, which inclu neast Asia, Japan and the west
consider the following state	ements:		3. 9	Santa Maria in Gu	uatemala is among the vari s present in the world.
periodic warming of	he surface waters in the		A. (Only one	ements above are correct? B. Only two
2. El Nino is one of the two	phases of a climate pattern	49.			D. None statements:
in sea surface tempera	tures between the eastern				cked country situated in the H
How many of the statemen	ts given above are correct?		(of and are adminis	
C. All three					nents given above is/are corre
					B. 2 only D. Neither 1 nor 2
statements: 1. Kavach is a cab signalin anti-collision features o	g train control system with leveloped by the Research	50.	rega A. I	rding the Gulf of G It is an inlet of the	g statements is/are not con Guinea (GoG)? e Atlantic Ocean on the east
 It acts as a vigilant w signaling system, aler approaching a 'red sign 	atchdog over the existing ting the loco pilot when		B. I t	It is found at the jur the Equator.	nction of the Prime Meridian
3. The Indian Railways Ins			۱ D. I	world's total petro Democratic <mark>R</mark> epub	leum reserves. lic of Congo, Gabon, Nigeria
Excellence' for Kavach.			(Ghana, all are situa	ated along GoG.
A. Only one	B. Only two	51.	follo	wing statements:	atorial rainforests, consider
A. Earthquake swarms ar	e caused by tectonic plate				a hot and humid climate v sistently high year-round.
	ma results in earthquake		C	characterized by ta	in equatorial rainforest all trees forming a dense can
-		1	τ		est floor, creating a multi-laye
C. Intense heat from vo			e	ecosystem.	
C. Intense heat from vo earthquake swarms in rD. Movement of magma r	nearby regions.		How	-	e statements are correct? B. Only two
	 Dakshin Gangotri Select the correct answer u A. 1 and 2 only C. 1 and 3 only With reference to El Nino ar consider the following state El Nino is a natural ph periodic warming of the equatorial Pacific Ocear El Nino is one of the two called El Niño-Southern Indian Ocean Dipole is of in sea surface tempera and western Indian Ocean How many of the statement A. Only one C. All three With reference to Kavach Systatements: Kavach is a cab signalin anti-collision features of Design and Standards C It acts as a vigilant was signaling system, aler approaching a 'red sign brakes if necessary. The Indian Railways Instatement A. Only one All three How many of the statement The Indian Railways Instates a transmutications of Excellence' for Kavach. How many of the statement A. Only one All three The statement The undian Railways Instates a transmutications of Excellence' for Kavach. How many of the statement Only one All three How are Earthquake Swarm Earthquake swarms are movements unrelated to the statement of the stat	 Maitri 2. Bharati Dakshin Gangotri Select the correct answer using the code given below: 1 and 2 only B. 2 only 1 and 3 only D. 1, 2 and 3 With reference to El Nino and the Indian Ocean Dipole, consider the following statements: El Nino is a natural phenomenon that involves a periodic warming of the surface waters in the equatorial Pacific Ocean. El Nino is one of the two phases of a climate pattern called El Niño-Southern Oscillation (ENSO). Indian Ocean Dipole is characterized by a disparity in sea surface temperatures between the eastern and western Indian Oceans. How many of the statements given above are correct? All three D. None With reference to Kavach System, consider the following statements: Kavach is a cab signaling train control system with anti-collision features developed by the Research Design and Standards Organisation (RDSO). It acts as a vigilant watchdog over the existing signaling system, alerting the loco pilot when approaching a 'red signal' and applying automatic brakes if necessary. The Indian Railways Institute of Signal Engineering & Telecommunications (IRISET) hosts the 'Centre of Excellence' for Kavach. All three D. None How are Earthquake Swarms are caused by tectonic plate movements unrelated to volcanic activity. The buoyancy of magma results in earthquake 	 Maitri 2. Bharati Dakshin Gangotri Select the correct answer using the code given below: A. 1 and 2 only B. 2 only C. 1 and 3 only D. 1, 2 and 3 With reference to El Nino and the Indian Ocean Dipole, consider the following statements: I. El Nino is a natural phenomenon that involves a periodic warming of the surface waters in the equatorial Pacific Ocean. I. El Nino is one of the two phases of a climate pattern called El Niño-Southern Oscillation (ENSO). Indian Ocean Dipole is characterized by a disparity in sea surface temperatures between the eastern and western Indian Oceans. How many of the statements given above are correct? A. Only one B. Only two C. All three D. None With reference to Kavach System, consider the following statements: I. Kavach is a cab signaling train control system with anti-collision features developed by the Research Design and Standards Organisation (RDSO). I. It acts as a vigilant watchdog over the existing signaling system, alerting the loco pilot when approaching a 'red signal' and applying automatic brakes if necessary. The Indian Railways Institute of Signal Engineering & Telecommunications (RISET) hosts the 'Centre of Excellence' for Kavach. How many of the statements given above is/are correct? A. Only one B. Only two C. All three D. None How are Earthquake Swarms a Sign of Volcanic Activity? A. Earthquake swarms are caused by tectonic plate movements unrelated to volcanic activity. B. The buoyancy of magma results in earthquake 	 Maitri 2. Bharati 3. Dakshin Gangotri Select the correct answer using the code given below: A. 1 and 2 only B. 2 only C. 1 and 3 only D. 1, 2 and 3 With reference to El Nino and the Indian Ocean Dipole, consider the following statements: I. El Nino is a natural phenomenon that involves a periodic warming of the surface waters in the equatorial Pacific Ocean. El Nino is one of the two phases of a climate pattern called El Niño-Southern Oscillation (ENSO). Indian Ocean Dipole is characterized by a disparity in sea surface temperatures between the eastern and western Indian Oceans. How many of the statements given above are correct? A. Only one B. Only two C. All three D. None Kavach is a cab signaling train control system with anti-collision features developed by the Research Design and Standards Organisation (RDSO). 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Bharati Dakshin Gangotri Select the correct answer using the code given below: A 1 and 2 only B. 2 only C. 1 and 3 only D. 1, 2 and 3 With reference to El Nino and the Indian Ocean Dipole, consider the following statements: El Nino is a natural phenomenon that involves a periodic warming of the surface waters in the equatorial Pacific Ocean. El Nino is one of the two phases of a climate pattern called El Niño-Southern Oscillation (ENSO). El Nino is one of the two phases of a climate pattern called El Niño-Southern Oscillation (ENSO). Indian Ocean Dipole is characterized by a disparity in sea surface temperatures between the eastern and western Indian Oceans. How many of the statements given above are correct? A Only one B. Only two C. All three D. None Mith reference to Kavach System, consider the following statements: Kavach is a cab signaling train control system with anti-collision features developed by the Research Design and Standards Organisation (RDSO). 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olcanoes, consider the following

- is linked to the movement and nic plates.
- s erupt frequently and are mostly acific Ring of Fire, which includes utheast Asia, Japan and the western ericas.
- Guatemala is among the various pes present in the world.

- B. Only two
- D. None
- ng statements:
 - locked country situated in the Horn
 - d the Socotra Archipelago are a part nistered by Somalia.
 - ements given above is/are correct?
 - B. 2 only
 - D. Neither 1 nor 2
- ving statements is/are not correct f Guinea (GoG)?
 - the Atlantic Ocean on the eastern
 - junction of the Prime Meridian and
 - ounts for more than 35% of the roleum reserves.
 - ublic of Congo, Gabon, Nigeria and tuated along GoG.
- quatorial rainforests, consider the s:
 - bically lie within 10 degrees latitude f the equator.
 - e a hot and humid climate with insistently high year-round.
 - on in equatorial rainforests is tall trees forming a dense canopy orest floor, creating a multi-layered

- B. Only two
- D. None

_ _ _ _ _ _

52.	Со	nsider the following stat	ements:			Но	w many
	1.	Jawahar Tunnel is a hig Rohtang Pass in the ea	,			cor A.	rect ? Only on
		Himalayas.				С.	All three
	2.	Atal Tunnel facilitat connectivity between S			56.		italum, tl
	3.	The Silkyara-Barkot tur Char Dham all-weather	•			Α.	Rare me Punjab
		Government.				Β.	New cry
		How many of the above				C.	Type of
	A.	Only one		nly two			emotior
	C.	All three	D. N			D.	New as
53.		th reference to 'E Prime L tements :	ayer', cons	ider the following	57.	The	Space To e Ben Gu
	1.	A new mysterious layer formed on the outer pa				rela A.	ated to
	2.	This layer developed penetrated deep into				A.	Israel, c Gulf of <i>i</i>
		composition of the o				В.	Egypt, c
		Mantle.				C.	Turkey,
	3.	The E Prime layer carr shedding light on the i processes that link su	nterconne	cted geochemical		D.	Mediter Panama Pacific C
		Earth's Crust.		h	58.	Re	garding
	пс А.	ow many of the stateme Only one	-	nly two		sta	tements:
	с.	All three	D. N	· ·		1.	Greenla two ma
54.	Со	nsider the following loca	ations:			2.	Togethe
	1.	Galathea Bay					freshwa
	2.	Indira Point				W	hich of th
	3.	Car Nicobar Island				Α.	1 only
	4.	Little Andaman Island				C.	Both 1 a
		Barren Island range these locations from	m North to	south and choose	59.		nsider th na Sea:
	the A.	e correct order: 1, 4, 5, 3, 2	B. 1,	5, 4, 3, 2		1.	The So
		5, 4, 3, 2, 1		4, 3, 1, 2		2.	Taiwan The Ind
55.	cor	th reference to Gond nsider the following state	ements :				Thailan South-C
	1.	Gondwana coalfields a peninsular regions.	re mainly o	confined to extra-		3.	The maj China S
	2.	It is found in Damoda Mahanadi (Chhattis				11-	only.
		(Maharashtra), and Na					w many o
	3.	Carbon content is very it is rich in moisture an		ndwana Coals but		А. С.	Only on All three

low many of the statements given above are not orrect?

A. Only one B. Only two

e D. None

- **56.** Tantalum, the term seen recently in the news, is a:
 - A. Rare metal discovered in the Sutlej river sand in Punjab
 - B. New cryptocurrency launched by Elon Musk
 - C. Type of artificial intelligence that can mimic human emotions
 - D. New asteroid discovered by NASA's James Webb Space Telescope
- 7. The Ben Gurion Canal was sometimes in the news. It is related to
 - A. Israel, connecting the Mediterranean Sea with the Gulf of Aqaba
 - B. Egypt, connecting the Red Sea with the Nile River
 - C. Turkey, connecting the Black Sea with the Mediterranean Sea
 - D. Panama, connecting the Atlantic Ocean with the Pacific Ocean
- **58.** Regarding the ice sheet, consider the following statements:
 - 1. Greenland ice sheet and Antarctica ice sheet are the two major ice sheets in the world today.
 - 2. Together, they contain about two-thirds of all the freshwater on Earth.

Which of the statements given above is/are correct?

- A. 1 only B. 2 only C. Both 1 and 2 D. Neither 1 and 2
- **59.** Consider the following statements regarding South-China Sea:
 - The South-China Sea is bordered by China and Taiwan to the West.
 - The Indo-Chinese peninsula (including Vietnam, Thailand, Malaysia, and Singapore) borders the South-China Sea to the North.
 - The major islands and reef formations in the South China Sea are the Spratly Islands, Paracel Islands only.

How many of the above statements are correct?

- Only one B. Only two
- C. All three D. None

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60.	With reference to the geograport, consider the following	-		2.			s been widely used by e conditions in Gaza.
	1. It is Iraq's only oceanic p	port.		W	hich of the statemen	ts given ab	ove is/are correct?
	2. It is situated in Sistan ar	nd Baluchistan Province, on		Α.	1 only	B	2 only
	the Makran coast.			C.	Both 1 and 2		. Neither 1 nor 2
	3. There are two main por Shahid Kalantari port an	ts in Chabahar namely, the d the Shahid Beheshti port.	65.	Wi	th reference to the H		onsider the following
	How many of the statement	s given above are correct?			tements:		
	A. Only one C. All three	B. Only two D. None		1.	It originates in Ma tributary of Yamun		lesh (MP) and is the
				2.	Rajghat, Paricha ai	nd Matatil	a dams are over Ken
61.	With reference to the Cyclo	nes, consider the following			river.		
	statements:				Ken River passes th		
	1. Cyclones in the Arabia			Но	w many of the state		
	Bengal.	than those of the Bay of		Α.	Only one	B	. Only two
	2. The Bay of Bengal usua	ally has higher sea surface		C.	All three	D	. None
	temperatures, providing	the necessary energy and mation and intensification.	66.		th reference to Sinai l tements:	Peninsula,	consider the following
		nds in the BOB, combined		1.	The Sinai Peninsula	a is a trian	gle-shaped peninsula
		(resulting from the Earth's			in Israel.		
		environment suitable for		2.	The peninsula inclu	udes the S	uez Canal, which is a
	cyclone genesis.						nat connects the
	How many of the above star	tements are not correct?			Mediterranean Sea	to the Per	rsian Sea.
	A. Only one	B. Only two		WI	nich of the statemen	ts given ab	ove is/are correct?
	C. All three	D. None		Α.	1 only	B	2 only
62.	With reference to Tibetan P	lateau in Asia,consider the		C.	Both 1 and 2	D	Neither 1 nor 2
	following statements:		67	Co	nsider the following	statement	c.
	1. Tibet is the highest regio	n on Earth, with an average	071				ers parts of Guyana,
	elevation of 6,900 mete	rs.		-			, Suriname, French
	2. The highest elevation in	Tibet is Mount K2.			Guiana, and Venez		, ,
		signed a treaty dictated by		2.	The Amazon rain	forest is b	ound by the Andes
		venteen Point Agreement".					tic Ocean to the west.
	How many of the statemen	-		W	nich of the statemen	ts given ab	ove is/are correct?
	A. Only one	B. Only two		Α.	1 only	B	2 only
	C. All three	D. None		C.	Both 1 and 2	D	Neither 1 nor 2
63.	Consider the following state	es:	68	Co	nsider the following	statement	c.
	1. Haryana	2. Panjab	00.		-		from sulfates and sea
	3. Himachal Pradesh	4. Delhi		1.	salt crystals.		nom sunates and sea
	How many of the above state	es are associated with Sutlej		2	-	air marin	e clouds have larger
	, Yamuna Link (SYL) Canal?	,		۷.	droplets with highe		-
	A. Only one	B. Only two		3.			Brightening (MCB) can
	C. Only three	D. All four		5.			erity of coral bleaching
64	-				events.	,	,
04.	With reference to Gaza Str statements:	ip, consider the following		Но	w many of the abov	e statemer	nts are correct?
	1. The Gaza Strip shares be	orders with Lebanon in the			Only one		. Only two
	southwest and Israel to				, All three		. None of the above
			1	-			

_____ **69.** Consider the following pairs: Cyclone Country 1. Typhoons a. Southeast Asia 2. Hurricanes b. Northwest Australia 3. Tornados c. West Africa and Southern US Which of the pairs given above is/are correctly matched? A. 2 only B. 1 and 3 only C. 2 and 3 only D. 1, 2 and 3 70. Which of the following countries border Kosovo? A. Albania, Montenegro, Serbia, and North Macedonia B. Albania, Bulgaria, Serbia, and Romania C. Bosnia and Herzegovina, Croatia, Serbia, and Hungary D. Greece, Turkey, Serbia, and Bulgaria 71. With reference to geographical characteristics of Tanzania, consider the following statements: 1. It is among the top 10 countries in the world with the most international borders. 2. Ngorongoro Crater, which is the world's largest intact volcanic caldera is located in Tanzania. 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 72. Consider the following statements: 1. It originates near Mahabaleshwar (Satara) in Maharashtra. 2. It is the second biggest river in peninsular India after the Godavari River. 3. It is a mighty east flowing river of peninsular India. 4. Its left bank tributaries include the Bhima, the Musi and the Munneru. Which one of the following Rivers is related to the characteristics mentioned above? A. Krishna River B. Mahanadi River C. Kaveri River D. Penner River **73.** Consider the following pairs: **Regions often** Geographical Location mentioned in news 1. West Bank : Located between Israel and Syria. 2. Gaza : Located between Israel and Egypt 3. Golan Heights : Located in Jordan How many of the above pairs are correctly matched? A. Only one B. Only two C. All three D. None

74. Consider the following countries:

- 1. Russia
- 2. Georgia
- 3. Armenia
- 4. Iran
- 5. Turkey

Which of the above have borders with Azerbaijan?

- A. 1, 2 and 5 only
- B. 1, 2, 3 and 4 only
- C. 3, 4 and 5 only
- D. 1, 2, 3, 4 and 5
- **75.** Which of the following statements is/are correct regarding 'Gabon'?
 - A. Gabon is a Central African landlocked country.
 - B. It shares land borders with Cameroon, Equatorial Guinea, Democratic Republic of Congo (DRC), and Kenya.
 - C. Gabon is widely described as 'Africa's last Eden'; the Loango National Park is one of the country's best wildlife-watching spots.
 - D. All options are correct.
- **76.** Consider the following following statements about 'Golden Globe Race':
 - 1. The Golden Globe Race is a non-stop, multi-player, unassisted yacht race around the world which was held for the first time in 1968-69.
 - The sailing takes a stipulated route, rounding the three great capes, Cape Agulhas in South Africa, Cape Leeuwin in Australia and Cape Horn in Chile.

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
- **77.** Consider the following statements:
 - 1. El Nino and La Nina represent the cool and warm phases of the El Nino-Southern Oscillation (ENSO) cycle respectively.
 - 2. El Nino typically results in decreased rainfall in the western Pacific region, including countries like Indonesia and Australia.
 - 3. El Nino has adverse effect on south-west monsoon of India but La Nina has no effect on monsoon climate.

How many of the above given statements are correct?

- A. Only one B. Only two
- C. Only three D. None of the above

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78.	 Which of the following countries share land borders with Myanmar? 1. Bangladesh 2. Cambodia 3. Laos 4. Thailand 		 The Central State Disas states and states.
	 5. Vietnam Select the correct answer using the codes given below: A. 1, 2 and 4 only B. 2, 3 and 4 only C. 1, 4 and 5 only D. 1, 2, 4 and 5 		3. SDRF is heaHow many of correct?A. Only one
79.	 Which of the following is correct regarding the Kermadec-Tonga subduction zone? A. The Pacific Plate is pushed under the Indo-Australian Plate B. The Juan de Fuca plate slide beneath the North American Plate C. The Caribbean plate is pushed under the North American Plate D. The Nazca plate slides beneath the South American 	83.	 C. All three Consider the fold 1. Saudi Arabia 2. United Arabia 3. Indian 4. Kuwait How many of the
80.	Plate Which one of the following correctly describes the Indian Ocean Dipole (IOD)?		the West CoastA. Only oneC. Only three
	 A. It is defined by differences in sea surface temperature between the Arabian Sea and the eastern Indian Ocean, influencing rainfall variability in the region. B. It is defined by variations in sea surface temperature 	84.	With reference the following st 1. Western Dis
	 between the Red Sea and the Mediterranean Sea, leading to increased rainfall in North Africa. c. It is defined by differences in atmospheric pressure between the northern and southern Indian Ocean, contributing to monsoon patterns in Southeast Asia. D. It is defined by shifts in ocean currents in the South Pacific, affecting marine ecosystems around 		 that origina Its trajector While the st they travel t April. How many of th Only one
81.	Australia. Crown shyness is a term sometimes seen in the news.		C. All three
	 It refers to: A. A phenomenon where some people avoid wearing crowns or tiaras due to social anxiety. B. A phenomenon where the tops of some trees do not touch each other, creating gaps in the sky between them. C. A phenomenon where some animals hide their heads under their fur or feathers to escape 	85.	Consider the femagma: 1. It is rich in f 2. It is associat 3. It is common How many of the A. Only one
	predators.D. A phenomenon where some plants produce less flowers or fruits due to environmental stress.	86.	C. All three What geologica aftermath of ex
82.	 Consider the following statements: 1. The National Disaster Relief Fund (NDRF) is funded by the Central Government through budgetary provisions or any other sources as decided by the Finance Commission. 		A. Broad shieldB. Dormant craC. Filled craterD. Continuous

- I Government contributes 75% to the ter Response Fund (SDRF) in general 90% in northeastern and Himalayan
- ded by the Chief Secretary of the state.
- the statements given above are not
- B. Only two
- D. None
- **Ilowing Nations:**
 - а
 - b Emirates

e above nations are not associated with **Refinery Project?**

- B. Only two
 - D. All four
- to the Western Disturbance, consider atements:
 - sturbances are a series of cyclonic storms te in the Mediterranean region.
 - y changes as per the position of the Sun.
 - orm systems occur throughout the year, to India mostly between December and

ne above statements are correct?

- B. Only two
- D. None
- ollowing statements related to basic
 - erromagnesian minerals
 - ted with shield volcanoes.
 - only associated with the oceanic crust. ne statements given above are correct?
 - B. Only two
 - D. None
- I feature is commonly observed in the tinct or inactive volcanoes?

- d volcanoes
- aters
- rs forming lakes
- gas emissions

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87.	With reference to Phosphc statements:	rus, consider the following		C. Key Ukrainian Black trade developments	K Sea ports involved in recent 5
 	1. India is the world's large	est importer of phosphorus.		D. Renowned Ukrainia	n cultural cities
		tion in India comes only from	92.	What conditions favor th	ne development of a heat wave?
	Rajasthan and Gujarat.	aromotos olgol blooms		1. Prevalence of hot d	ry air over a region
	-	e promotes algal blooms, ter bodies and causing fish		2. Absence of moisture	e in the upper atmosphere
	deaths.			3. The sky should be p	ractically cloudless.
	How many of the statemen	ts given above are correct?		4. Large amplitude ant	ti-cyclonic flow over the area
	A. Only one	B. Only two		Select the correct answe	er using following code:
	C. All three	D. None		A. Only 1 and 2	B. Only 3
88.	With reference to "Joshima	ath", consider the following		C. Only 4	D. All the above
	statements:		93.	Cocos Islands, which is re	ecently seen in the news, is part
	1. Joshimath is a hilly town	located in Dehradun district		of which of the followin	g countries?
	of Uttarakhand.			A. Myanmar	B. Australia
	2. The town is traversed	by running streams from		C. Papua New Guinea	D. Madagascar
	Devprayag. 3. It is home to one of the	a four cardinal monasteries	94.	Consider the following s	statements:
	established by Adi Shar				est monsoon winds from the
	How many of the statemen				y of Bengal blow southwest to
	A. Only one	B. Only two		gradient between north	nsular region due to a pressure
	C. All three	D. None		-	air in the Southwest monsoon
89	With reference to the "Inc	lo-Pacific" region consider			ches the Tibetan Plateau, forced
0.5.1	the following statements:				igher elevation of the plateau
	1. It consists of 75% of t	he world's population and			enses leading to the formation
	2/3rd of the global eco	nomic output.		of clouds and eventually	
	2. In its geographical dime			above statements?	ving is correct in respect of the
	shores and extends to A				d Statement-II are correct, and
	Which of the statements gi				he correct explanation for
	A. 1 only	B. 2 only		Statement-I.	
	C. Both 1 and 2	D. Neither 1 nor 2			d Statement-II are correct, and
90.	Consider the following pair	s:		Statement-II is not Statement-1.	t the correct explanation for
	River Basin	State			et but Statement II is incorrect
	1. Subarnarekha	Jharkhand			ct, but Statement-II is incorrect. rect, but Statement-II is correct.
	2. Pennar	Andhra Pradesh			
	3. Krishna	Telangana	95.		g can be the causes of Urban
	How many of the pairs give			Flooding?	During an Changela
	A. Only one	B. Only two		 Encroachments on I Pollution of water b 	-
	C. All three	D. None of the above			e of Water from Dams
91.	Which of the following bes	•		4. Illegal Mining	
	of Odesa, Chornomorsk, an				er using the codes given below:
	A. Newly discovered histo			A. 1, 3 and 4 only	B. 1, 2 and 3 only
	 B. Ukrainian cities hostin events 			C. 2, 3 and 4 only	D. 1, 2, 3 and 4
1					, _ , _
·					

96.	Consider the following state	ments with respect to 'River	101. Con	sider the following c	ountries:
	Devika Rejuvenation Project	-		Venezuela	2. Brazil
	1. This project was launche		3.	Guyana	4. Colombia
	Conservation Plan (NRC		5.	French Guyana	6. Peru
	2. Devika River originate	-	Hov	v many of the above	e-mentioned countries share a
	and Kashmir.	Jdhampur district of Jammu	land	d border with Surinar	me?
	3. It flows down towards	s eastern Puniab where it	A.	Only two	B. Only three
	merges with the Beas R	-	C.	Only four	D. Only five
	How many of the above sta	tements are not correct?	102. Whi	ich of the following o	options correctly arranges the
	A. Only one	B. Only two		-	Period in chronological order
	C. All three	D. None		n oldest to youngest?	
97.	Consider the following cour	ntries:			Pleistocene, Miocene
	1. Libya	2. Mauritania			Pleistocene, Holocene
	3. Burkina Faso	4. Mali			ne, Miocene, Pliocene
	5. Ghana	6. Benin	D.	Holocene, Pleistocer	ne, Pliocene, Miocene
	How many of the above have	ve borders with Niger?	103. Whi	ich of the following la	akes is accurately described as
	A. Only two	B. Only three			cial lakes in Meghalaya, situated
	C. Only four	D. Only five			ng, created as a reservoir as part roject on the Barapani River"?
98.	Consider the following state	ements:		Umiam Lake	B. Chilika Lake
	1. India is ranked third in th	e world in terms of building		Dal Lake	D. Vembanad Lake
	large dams.				
	2. Hirakud Dam in Odisha			ntries?	rder of which of the following
	the oldest and longest of Which of the statements give			Norway	2. Finland
	A. 1 only	B. 2 only		Sweden	4. Germany
	C. Both 1 and 2	D. Neither 1 nor 2	Sele	ect the correct answe	er using the code given below:
				1, 2 and 3 only	B. 2 and 3 only
99.	Which of the following state		C.	3 and 4 only	D. 1, 3 and 4 only
	1. Flash Droughts involve i from the atmosphere. c	reating ideal conditions for	105. Con	sider the following c	ountries:
	fire spread.			Great Britain	2. Denmark
	2. The Island of Maui has or	ne active volcano, Haleakalā.		Norway	4. Germany
	3. In India, Mizoram has se	-		Netherlands	6. Poland
	forest fires over the last		Hov	v many of the above	e-mentioned countries share a
	Select the correct answer up			d border with the No	
	A. 1 and 2 only	B. 2 and 3 only	A.	Only two	B. Only three
	C. 1 only	D. 1, 2 and 3	C.	Only four	D. Only five
100.	Originating from Brahma (106. Wit	h reference to the No	orth Sea Route (NSR), consider
	through approximately 800 of Bengal; recognized as o		the	following statements	S:
	rivers, it hosts the Rangant				test shipping route for freight
	fed by tributaries like Hara				een Europe and countries of the
	Bhavani. The river described is -	in the provided information		Asia-Pacific region.	across the Arctic Ocean,
	A. Krishna	B. Godavari			irents Sea, Kara Sea, Laptev Sea,
	C. Cauvery	D. Mahanadi		and East Siberian Sea	-
		S. Manandar	1		

 3. This route has a greater length compared to the Panam route but is shorter than the Suez Canaroute. How many of the above statements are not correct? A. Only one B. Only two C. All three D. None 107. With reference to the geographical facts about the following statements: 1. It is brodred by Albania, North Macedonia, Bulgaria, and Turkey. C. Greece's highest mountain is Mount Olympus. Which of the statements given above is/are correct? A. 1 only B. 2 only C. Both 1 and 2 only D. Neither 1 nor 2 C. Both 1 and 2 only D. Neither 1 nor 2 C. Both 1 and 2 only D. Neither 1 nor 2 C. Both 1 and 2 only D. Neither 1 nor 2 C. Both 1 and 2 only D. Neither 1 nor 2 C. Both 1 and 2 only D. Neither 1 nor 2 C. Both 1 and 2 only D. Neither 1 nor 2 C. Both 1 and 2 only D. None 109. Consider the following statements: Deendayal Port is located on the East Cost of frami Nadu. India has 12 major ports and 200 non-major ports (minor ports) in the Statements: Deendayal Port is located on the East Cost of frami Nadu. India has 12 major ports and 200 non-major ports (minor ports) in the Country. How many of the above statements are correct? A. Only one B. Only two C. All three D. None 100. Which of the following statements: Deendayal Port is located on the East Cost of frami Nadu. India has 12 major ports and 200 non-major ports (minor ports) in the Country. How many of the above statements are correct? A. Only one B. Only two C. All three D. None of the above statements are correct? A. Only one B. Only two C. All three D. None of the above statements are correct? A. Only								
 A. Only one B. Only two C. All three D. None 107. With reference to the geographical facts about the Philippines, consider the following statements: 1. It is bordered by Albania, North Macedonia, Bulgaria, and Turkey. 2. Greece's highest mountain is Mount Olympus. Which of the statements given above is/are correct? A. 1 only B. 2 only C. Both 1 and 2 only D. Neither 1 nor 2 108. With reference to the Pacific Decadal Oscillation (PDO), consider the following statements: 1. It is a cyclical event that repeats every 20-30 years and just like FNSO, has a' cool' and 'warn' phase. 2. El Nino Southern Oscillation (ENSO) with a positive PDO brings more rain to India. 3. A warmer (positive-phased) PDO implies fewer equatorial-origin cyclones. How many of the statements given above are correct? A. Only one B. Only two C. All three D. None 109. Consider the following statements: 1. Deendayal Portis located on the East Coast of India, in the Gulf of Mannar in the State of Tamil Nadu. 2. India has 12 major ports are under the jurisdiction of respective State Maritime Boards/ State Government. How many of the above statements are correct? A. Only one B. Only two C. All three D. None of the above. 110. Which of the following countries share borders with Kenya? (2008) 1. Uganda 2. Sudan 3. Eritrea 4. Somalia Statement-1 and Statement-1 and Statement-1 are correct. and Statement-1 is not the correct explanation for Statement-1 is not the correct explanation for Statement-1 is is not the correct explanation for Statement-1 is is norrect buils incorrect buils incorrect D. 		3.	Panama route but is short		is	recently seen in ne	ews is locat	
 C. All three D. None 107. With reference to the geographical features of Greece, consider the following statements: It is bordered by Albania, North Macedonia, Bulgaria, and Turkey. Greece's highest mountain is Mount Olympus. Which of the statements given above is/are correct? A. 1 only B. 2 only C. Both 1 and 2 only D. Neither 1 nor 2 108. With reference to the Pacific Decadal Oscillation (PDO), consider the following statements: It is a cyclical event that repeats every 20-30 years and just like ENSO, has a 'cool' and 'warm' phase. El Nino Southern Oscillation (ENSO) with a positive PDD brigs more rain to India. A warmer (positive-phased) PDD implies fewer equatorial-origin cyclones. How many of the statements: Deendayal Port is located on the East Coast of India, in the Gulf of Manari in the State of Tamil Nadu. India has 12 major ports and 200 non-major ports, in the country. The Major Ports are under the jurisdiction of respective State Maritime Boards/ State Government. How many of the above statements: 109. Consider the following statements: Deendayal Port is located on the East Coast of India, in the Gulf of Manari in the State of Tamil Nadu. India has 12 major ports and 200 non-major ports; Government. How many of the above statements: The Major Ports are under the jurisdiction of respective State Maritime Boards/ State Government. Mow many of the above statements: are correct? A only one B. Only two C All three D. None of the above statement-II and Statement-II are correct, and Statement-II are correct, and Statement-II are correct, and Statement-II is the correct explanation for Statement-II is correct, but Statement-II is		Но	w many of the above staten	nents are not correct?	Α.	Tamil Nadu	В.	Andhra Pradesh
 107. With reference to the geographical features of Greece, consider the following statements: It is bordered by Albania, North Macedonia, Bulgaria, and Turkey. Greece's highest mountain is Mount Olympus. Which of the statements given above is/are correct? A only B. Only two C. Both 1 and 2 only D. Neither 1 nor 2 108. With reference to the Pacific Decadal Oscillation (PDO), consider the following statements: Neither 1 nor 2 109. With reference to the Pacific Decadal Oscillation (PDO), consider the following statements: Neither 1 nor 2 108. With reference to the Pacific Decadal Oscillation (PDO), consider the following statements: Neither 1 nor 2 109. With reference to the Pacific Decadal Oscillation (PDO), consider the following statements: Neither 1 nor 2 108. With reference to the Pacific Decadal Oscillation (PDO), consider the following statements: Neither 1 nor 2 109. Consider the following statements: Deendayal Port is located on the East Coast of India, in the Guif of Manara in the State of Tamili Nadu. India has 12 major ports and 200 non-major ports on Hoard Do non-major ports on Hoard Do non-major ports on Hoard Do non-major ports and 200 non-major ports on Hoard Do non-major ports and 200 non-major port		Α.	Only one	B. Only two	C.	Karnataka	D.	Kerala
 It is an archipelago located in Southeast Asia bordered by the Philippine Sea to the east, the South China Sea to the west, and the Celebes Sea to the south. It is an archipelago located in Southeast Asia bordered by the Philippine Sea to the east, the South. It is an archipelago located in Southeast Asia bordered by the Philippine Sea to the east, the South. Mount Apo on Mindanao Island is the highest peak which is an active volcano. Which of the statements given above is/are not correct? A. 1 only B. 2 only C. Both 1 and 2 only D. Neither 1 nor 2 It is a cyclical event that repeats every 20-30 years and just like ENSO, has a 'cool' and 'warn' phase. I. El Nino Southern Oscillation (ENSO) with a positive PDD is generally not good, however, ENSO with a negative PDD impigs more rain to India. A warmer (positive-phased) PDO implies fewer equatorial-origin cyclones. How many of the statements: Deendayal Port is located on the East Coast of India, in the Gulf of Manar in the State of Tamil Nadu. India has 12 major ports and 200 non-major ports (minor ports) in the country. The Major Ports are under the jurisdiction of respective State Maritime Boards/ State Government. How many of the above statements are correct? A. Only one B. Only two C. All three D. None of the above It here and state or Tamil Nadu. Statement 2: The Himalayan region 'Isoil makeup Pradesh, Arunachal Pradesh, Manipur, Meghalayan Calculing clayey, Ioamy, and metamorphosed schist phylite, and greiser socks, is inherenti-I are correct, and Statement-I are correct, and Statement-I and Statement-I are correct, and Statement-I is correct explanation fo Statement-I. Statement-I. Statement-I. Statement-I. Statement-I. Statement-I. Statement-I. Statement-I. Statement-I. St	107	-						
 Greece's highest mountain is Mount Olympus. Which of the statements given above is/are correct? A 1 only B 2 only Both 1 and 2 only D Neither 1 nor 2 Mount Apo on Mindanao Island is the highest peak which is an active volcano. I only B 2 only C Both 1 and 2 only D Neither 1 nor 2 C Both 1 and 2 only D Neither 1 nor 2 C Both 1 and 2 only B 2 only C Both 1 and 2 D Neither 1 nor 2 Consider the following statements: I tris a cyclical event that repeats every 20-30 years and just like ENSO, has a 'cool' and 'warm' phase. El Nino Southern Oscillation (ENSO) with a positive PDO is generally not good, however, ENSO with a negative PDO brings more rain to India. A warmer (positive-phased) PDO implies fewer equatorial-origin cyclones. How many of the statements given above are correct? A Only one B Only two C All three D None C All three D None of the following statements: D Deendayal Port is located on the East Coast of India, in the Guif of Mannar in the State of Tamil Nadu. India has 12 major ports and 200 non-major ports (minor ports) in the country. The Major Ports are under the jurisdiction of respective State Maritime Boards/ State Government. How many of the above statements are correct? A Only one D None of the above Mich of the following countries share borders with Kenya? (2008) Uganda Sudan Eritrea Sudan Eritrea Sudan Eritrea Sudan Eritrea Sonly Ba 2 and 3 only B oth Statement-I and Statement-II are correct, and statement-I. B	107	COI	nsider the following stateme It is bordered by Albania, No	ents:		It is an archipela bordered by the Ph China Sea to the w	go located ilippine Sea	in Southeast Asia, to the east, the South
 C. Both 1 and 2 only D. Neither 1 nor 2 A. 1 only B. 2 only C. Both 1 and 2 D. Neither 1 nor 2 A. 1 only B. 2 only C. Both 1 and 2 D. Neither 1 nor 2 C. Both 1 and 2 D. Neither 1 nor 2 C. Both 1 and 2 D. Neither 1 nor 2 C. Both 1 and 2 D. Neither 1 nor 2 C. Both 1 and 2 D. Neither 1 nor 2 C. Both 1 and 2 D. Neither 1 nor 2 C. Both 1 and 2 D. Neither 1 nor 2 C. Both 1 and 2 D. Neither 1 nor 2 C. Both 1 and 2 D. Neither 1 nor 2 C. Both 1 and 2 D. Neither 1 nor 2 C. Both 1 and 2 D. Neither 1 nor 2 C. Both 1 and 2 D. Neither 1 nor 2 C. Both 1 and 2 D. Neither 1 nor 2 C. Both 1 and 2 D. Neither 1 nor 2 C. Both 1 and 2 D. Neither 1 nor 2 C. Both 1 and 2 D. Neither 1 nor 2 C. Both 1 and 2 D. Neither 1 nor 2 C. Both 1 and 2 D. Neither 1 nor 2 C. Both 1 and 2 D. Neither 1 nor 2 C. Both 1 and 2 D. Neither 1 nor 2 C. Both 1 and 2 D. Neither 1 nor 2 C. Both 1 and 2 D. Neither 1 nor 2 C. Both 1 and 2 D. Neither 1 nor 2 C. Both 1 and 2 D. Neither 1 nor 2 C. Both 1 and 2 D. Neither 1 nor 2 C. Both 1 and 2 D. Neither 1 nor 2 C. Both 1 and 2 D. Neither 1 nor 2 C. Both 1 and 2 D. Neither 1 nor 2 C. Both 1 and 2 D. Neither 1 nor 2 C. Both 1 and 2 D. Neither 1 nor 2 C. Both 1 and 2 D. Neither 1 nor 2 C. Statement-1 I is nored than 5 tatement-1 lis incorred t purplication for statement-1 lis incorre		W	hich of the statements given	above is/are correct?	2.	Mount Apo on Min		d is the highest peak
 C. Both 1 and 2 only D. Neither 1 nor 2 A. 1 only B. 2 only 108. With reference to the Pacific Decadal Oscillation (PDO), consider the following statements: It is a cyclical event that repeats every 20-30 years and just like ENSO, has a 'cool' and 'warm' phase. El Nino Southern Oscillation (ENSO) with a positive PDO is generally not good, however, ENSO with a negative PDO brings more rain to India. A warmer (positive-phased) PDO implies fewer equatorial-origin cyclones. A warmer (positive-phased) PDO implies fewer equatorial-origin cyclones. How many of the statements given above are correct? A. Only one B. Only two C. All three Deendayal Port is located on the East Coast of India, in the Gulf of Mannar in the State of Tamil Nadu. India has 12 major ports are under the jurisdiction of respective State Maritime Boards/ State Government. How many of the above statements are correct? A. Only one B. Only two C. All three D. None of the above Statement 2: The Indian Himalayan Region (IHR) i spread across 13 Indian States/Union Territories namel/ Jammu and Kashmir, Ladakh, Uttarakhand, Himacha Pradesh, Arunachal Pradesh, Manipur, Meghalaya Mizoram, Nagaland, Sikkim, Tripura, Assam and Wes Bengal stretching across 2500 km. 110. Which of the following countries share borders with Kenya? (2008) Uganda Sudanda Sudanda<th></th><td>Α.</td><td>1 only</td><td>B. 2 only</td><td>W</td><td>hich of the statement</td><td>ts given abo[,]</td><td>ve is/are not correct?</td>		Α.	1 only	B. 2 only	W	hich of the statement	ts given abo [,]	ve is/are not correct?
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 1. It is a cyclical event that repeats every 20-30 years and just like ENSO, has a 'cool' and 'warm' phase. 2. El Nino Southern Oscillation (ENSO) with a positive PDO is generally not good, however, ENSO with a negative PDO brings more rain to India. 3. A warmer (positive-phased) PDO implies fewer equatorial-origin cyclones. How many of the statements given above are correct? A. Only one B. Only two C. All three D. None 109. Consider the following statements: Deendayal Port is located on the East Coast of India, in the Guif of Mannar in the State of Tamil Nadu. India has 12 major ports and 200 non-major ports (minor ports) in the country. The Major Ports are under the jurisdiction of respective State Maritime Boards/ State Government. How many of the above statements are correct? A. Only one B. Only two C. All three D. None of the above Mow many of the above statements are correct? A. Only one B. Only two C. All three D. None of the above Statement 2: The Himalayan Region (HR) i spread across 13 Indian States/Union Territories namely lammu and Kashmir, Ladakh, Uttarakhand, Himacha Pradesh, Arunachal Pradesh, Manipur, Meghalaya Mizoram, Nagaland, Sikkim, Tripura, Assam and Wess Bengal stretching across 2500 km. 110. Which of the following countries share borders with Kenya? (2008) Uganda 2. Sudan Eritrea 4. Somalia Select the correct answer using the code given below: Code: Tand 2 only 2 and 3 only 	108	. Wi	ith reference to the Pacific De	ecadal Oscillation (PDO),	C.	Both 1 and 2	D.	Neither 1 nor 2
 and just like ENSO, has a 'cool' and 'warm' phase. El Nino Southern Oscillation (ENSO) with a positive PDO is generally not good, however, ENSO with a negative PDO brings more rain to India. A warmer (positive-phased) PDO implies fewer equatorial-origin cyclones. How many of the statements given above are correct? Only one B. Only two C. All three D. None Consider the following statements: Deendayal Port is located on the East Coast of India, in the Gulf of Manara in the State of Tamil Nadu. India has 12 major ports and 200 non-major ports (minor ports) in the country. The Major Ports are under the jurisdiction of respective State Maritime Boards/ State Government. How many of the above statements are correct? Only one B. Only two C. All three D. None fthe above The Major Ports are under the jurisdiction of respective State Maritime Boards/ State Government. 100. Which of the following countries share borders with Kenya? (2008) Uganda 2. Sudan Fritrea 4. Somalia Select the correct answer using the code given below: Code:							ng stateme	nts with respect to
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equatorial-origin cyclones.How many of the statements given above are correct?A. Only oneB. Only twoC. All threeD. None109. Consider the following statements:1. Deendayal Port is located on the East Coast of India, in the Gulf of Mannar in the State of Tamil Nadu.2. India has 12 major ports and 200 non-major ports (minor ports) in the country.3. The Major Ports are under the jurisdiction of respective State Maritime Boards / State Government.How many of the above statements are correct?A. Only oneB. Only twoC. All threeD. None of the above statements are correct?A. Only oneB. Only twoC. All threeD. None of the above statements are correct?A. Only oneB. Only twoC. All threeD. None of the above110. Which of the following countries share borders with Kenya? (2008)110. Which of the following countries share borders with Kenya? (2008)1110. Which of the following countries share borders with Kenya? (2008)1120. Which of the following countries share borders with Kenya? (2008)1131. Uganda2. Sudan3. Eritrea3. EritreaA. 1 and 2 onlyB. 2 and 3 onlyB. 2 and 3 onlyB. ConlyB. 2 and 3 only			negative PDO brings more	rain to India.	2.		-	n the Saffir-Simpson
A. Only one B. Only two C. All three D. None 109. Consider the following statements: 1. Deendayal Port is located on the East Coast of India, in the Gulf of Mannar in the State of Tamil Nadu. 2. India has 12 major ports and 200 non-major ports (minor ports) in the country. 114. Consider the following statements: 3. The Major Ports are under the jurisdiction of respective State Maritime Boards/ State Government. Mizoram, Nagaland, Sikkim, Tripura, Assam and West Bengal stretching across 2500 km. How many of the above statements are correct? A. Only one B. Only two C. All three D. None of the above Statement 2: The Himalayan region's soil makeup including clayey, loamy, and metamorphosed schist phyllite, and gneiss rocks, is inherently delicate. 110. Which of the following countries share borders with Kenya? (2008) A. Somalia 1. Uganda 2. Sudan 3. Eritrea 4. Somalia Select the correct answer using the code given below: Code: A. 1 and 2 only A. 1 and 2 only B. 2 and 3 only			equatorial-origin cyclones.		3.			
C. All threeD. NoneD. None109. Consider the following statements:1.Deendayal Port is located on the East Coast of India, in the Gulf of Mannar in the State of Tamil Nadu.114. Consider the following statements:1. Deendayal Port is located on the East Coast of India, in the Gulf of Mannar in the State of Tamil Nadu.114. Consider the following statements:2. India has 12 major ports and 200 non-major ports (minor ports) in the country.Statement 1: The Indian Himalayan Region (IHR) i spread across 13 Indian States/Union Territories namely Jammu and Kashmir, Ladakh, Uttarakhand, Himacha Pradesh, Arunachal Pradesh, Manipur, Meghalaya3. The Major Ports are under the jurisdiction of respective State Maritime Boards/ State Government.Mizoram, Nagaland, Sikkim, Tripura, Assam and Wes Bengal stretching across 2500 km.4. Only oneB. Only twoC. All threeD. None of the aboveA. Only oneB. Only twoC. All threeD. None of the above110. Which of the following countries share borders with Kenya? (2008)Statement-I and Statement-II are correct, and Statement-I.110. Which of the following countries share bordersA. Both Statement-I and Statement-II are correct, and Statement-I.3. Eritrea4. Somalia Select the correct answer using the code given below: Code: A. 1 and 2 onlyB. 2 and 3 onlyC. Statement-I is correct, but Statement-II is incorrect D. Statement-I is correct but Statement-II is incorrect D. Statement-I is correct but Statement-II is correct					Ho			
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 Deendayal Port is located on the East Coast of India, in the Gulf of Mannar in the State of Tamil Nadu. India has 12 major ports and 200 non-major ports (minor ports) in the country. The Major Ports are under the jurisdiction of respective State Maritime Boards/ State Government. How many of the above statements are correct? A. Only one B. Only two C. All three D. None of the above Statement-1 and Statement-II are correct, and Statement-I. Uganda Sudan Eritrea Sudan Eritrea Somalia Select the correct answer using the code given below: Code: A. 1 and 2 only Damage and 2 and 3 only Dendayal Portice and the East Coast of India, in the Gulf of Mannar in the State of Tamil Nadu. Statement 1: The Indian Himalayan Region (IHR) is spread across 13 Indian States/Union Territories name Pradesh, Arunachal Pradesh, Manipur, Meghalaya Mizoram, Nagaland, Sikkim, Tripura, Assam and West Bengal stretching across 2500 km. Statement 2: The Himalayan region's soil makeup including clayey, loamy, and metamorphosed schist phyllite, and gneiss rocks, is inherently delicate. Which one of the following is correct in respect of the above statement-I. Both Statement-I and Statement-II are correct, and Statement-I. Both Statement-I and Statement-II are correct explanation fo Statement-I. Statement-I is not the correct explanation fo Statement-I. Statement-I is correct, but Statement-II is incorrect by Statement-I. 		C.	All three	D. None	C.	All three	D.	None
 Deendayal Port is located on the East Coast of India, in the Gulf of Mannar in the State of Tamil Nadu. India has 12 major ports and 200 non-major ports (minor ports) in the country. The Major Ports are under the jurisdiction of respective State Maritime Boards/ State Government. How many of the above statements are correct? A. Only one B. Only two C. All three D. None of the above Statement-I Uganda Eritrea Sudan Eritrea Sudan	109	. Co	nsider the following stateme	ents:	114. Co	nsider the following	statements	5
 India has 12 major ports and 200 non-major ports (minor ports) in the country. The Major Ports are under the jurisdiction of respective State Maritime Boards/ State Government. How many of the above statements are correct? A. Only one B. Only two C. All three D. None of the above 110. Which of the following countries share borders with Kenya? (2008) Uganda 2. Sudan Eritrea 4. Somalia Select the correct answer using the code given below: Code: A. 1 and 2 only B. 2 and 3 only Jammu and Kashmir, Ladakh, Uttarakhand, Himacha Pradesh, Arunachal Pradesh, Arunachal Pradesh, Manipur, Meghalaya Mizoram, Nagaland, Sikkim, Tripura, Assam and Wes Bengal stretching across 2500 km. Statement 2: The Himalayan region's soil makeup including clayey, loamy, and metamorphosed schist phyllite, and gneiss rocks, is inherently delicate. Which one of the following is correct in respect of the above statement-I and Statement-II are correct, and Statement-II is the correct explanation fo Statement-I. B. Both Statement-I and Statement-II are correct, and Statement-II is not the correct explanation fo Statement-I. C. Statement-I. C. Statement-I is correct, but Statement-II is incorrect D. Statement I is incorrect but Statement I is correct but Statement I is correct. 		1.			Sta	atement 1: The Inc	lian Himala	yan Region (IHR) is
respective State Maritime Boards/ State Government.How many of the above statements are correct?A. Only oneB. Only twoA. Only oneB. Only twoC. All threeD. None of the aboveC. All threeD. None of the aboveWhich one of the following is correct in respect of the above statements?110. Which of the following countries share borders with Kenya? (2008)A. Both Statement-I and Statement-II are correct, and Statement-II is the correct explanation fo Statement-I.1. Uganda2. Sudan3. Eritrea4. SomaliaSelect the correct answer using the code given below: Code:B. 2 and 3 onlyA. 1 and 2 onlyB. 2 and 3 only		2.			Jai	nmu and Kashmir, I	Ladakh, Utt	arakhand, Himachal
 How many of the above statements are correct? A. Only one B. Only two C. All three D. None of the above 110. Which of the following countries share borders with Kenya? (2008) 1. Uganda 2. Sudan 3. Eritrea 3. Eritrea 4. Somalia Select the correct answer using the code given below: Code: A. 1 and 2 only B. 2 and 3 only 		3.	respective State Mari	-	Be	ngal stretching acros	ss 2500 km.	
 A. Only one B. Only two C. All three D. None of the above 110. Which of the following countries share borders with Kenya? (2008) 1. Uganda 2. Sudan 3. Eritrea 3. Eritrea 4. Somalia Select the correct answer using the code given below: Code: A. 1 and 2 only B. 2 and 3 only 		Ца		nonts are correct?				
A. Only theD. None of the aboveC. All threeD. None of the above110. Which of the following countries share borders with Kenya? (2008)Which one of the following is correct in respect of the above statement-I and Statement-II are correct, and Statement-II is the correct explanation fo Statement-I.1. Uganda2. Sudan3. Eritrea4. Somalia Select the correct answer using the code given below: Code: A. 1 and 2 onlyB. 2 and 3 onlyA. 1 and 2 onlyB. 2 and 3 only								
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Kenya? (2008)Statement-II is the correct explanation for Statement-II is the correct explanation for Statement-I.1. Uganda2. Sudan3. Eritrea4. SomaliaSelect the correct answer using the code given below: Code:B. 2 and 3 onlyA. 1 and 2 onlyB. 2 and 3 only					ab	ove statements?	-	-
 3. Eritrea 4. Somalia Select the correct answer using the code given below: Code: A. 1 and 2 only B. 2 and 3 only Code: Code	110	Ke	nya? (2008)		A.	Statement-II is		
Select the correct answer using the code given below: Code:Statement-II is not the correct explanation fo Statement-I.A. 1 and 2 onlyB. 2 and 3 onlyC. Statement-I is correct, but Statement-II is incorrectD. Statement-I is correct but Statement I is correct.C. Statement-I is correct.			-					
Code:Statement-1.A. 1 and 2 onlyB. 2 and 3 onlyD. Statement-Lic incorrectStatement-Lic incorrect		-			В.			
Code: A. 1 and 2 only B. 2 and 3 only C. Statement-I is correct, but Statement-II is incorrect D Statement-Lic incorrect but Statement-II is correct				g the code given below:			or the corr	ect explanation for
A. I and 2 only B. 2 and 3 only D. Statement Lic incorrect but Statement I is correct					C.		ect, but Stat	ement-II is incorrect.
C. 1 and 4 only D. 1, 2, 3 and 4								
		C.	1 and 4 only	D. 1, 2, 3 and 4			,	

:								
115.		nsider the following sta ods':	tements regarding 'Flash	120		ith reference to the lowing statements:	e Chenab I	River, consider the
1 1 1 1	1.	floods that occur within a	n, rapid and high-volume a few hours of heavy rainfall			It rises in the upper district of Himacha	Pradesh st	ate.
	2.		ainfall exceeds the capacity		2.	It flows through th Kashmir into the pl		-
	Wł	of the soil and drainage nich of the statements give	systems to absorb it. en above is/are not correct?		3.	It is formed by the c and Bhaga.	onfluence o	f two rivers, Chandra
!	Α.	1 only	B. 2 only		W	hich of the statemen	ts given abo	ove is/are correct?
i	C.	Both 1 and 2	D. Neither 1 nor 2		Α.	1 and 2 only	В.	2 and 3 only
116.		nsider the following state ian Oscillation (MJO)':	ments regarding 'Madden-			1 and 3 only		1, 2 and 3
!			the disturbance of should	121		hich of the following		
1 1 1		rainfall, winds, and press			1.	Land subsidence re settling of the Eart	h's surface,	usually due to the
 		monsoon conditions in I				compaction of und other materials.	erground la	yers of soil, rock, o
i	Wł	nich of the statements giv	en above is/are correct?		2.	Excessive ground		
1	Α.	1 only	B. 2 only			identified as the und		
117	-	Both 1 and 2	D. Neither 1 nor 2 Meteorological Organization			incidents in Joshima of Punjab, Haryana	, Delhi, and	Faridabad.
11/.		MO), consider the follow	• •		3.			
-			ental organization with a			experienced an ave		al sinking rate of 1
	1.	-	nber States and Territories.			mm from 2011-201		
!	2.	India is not a member of				lect the correct answ		
!		It is headquartered in G				1 and 2 only		2 and 3 only
		nich of the statements giv			C.	1 only	D.	1, 2 and 3
 		1 and 2 only	B. 2 and 3 only	122	. Co	nsider the following	statements	:
1		1 and 3 only	D. 1, 2 and 3		1.	Glacier is any larg		
118.	Со	nsider the following sta	itements regarding 'Land			originates on land or other forms of s		
		clamation':			2.			
	1.		to the process of creating the existing landmass by			composed mainly o	f glacial till v	with some masses o
			claiming areas from water		14/1	gravel and sand.		
1		bodies.	0			hich of the statemen	-	
	2.	Artificial islands for migr	atory birds and marine life			1 only		2 only
1		can be created by the La	and Reclamation.		C.	Both 1 and 2	D.	Neither 1 nor 2
		nich of the statements giv 1 only	en above is/are correct? B. 2 only	123		ith reference to the he itements:	eatwaves, co	onsider the following
i	C.	Both 1 and 2	D. Neither 1 nor 2		1.	Heatwave need not		
119.	Со	nsider the following state	ments:			temperature of a s Plains and at-least		
	1.	Permafrost is essentially a for at least two years str	any ground that stays frozen raight.		2.	An increase of 5 temperature is c		
i	2.	Permafrost regions are a	always covered with snow.			condition.		
1	Wł	nich of the statements give	en above is/are not correct?		WI	hich of the statemen	ts given abo	ove is/are correct?
1	A.	1 only	B. 2 only		Α.	1 only	В.	2 only
	C.	Both 1 and 2	D. Neither 1 nor 2		C.	Both 1 and 2	D.	Neither 1 nor 2
!				-				

1					
124. Consider the following statements:1. The Son River is the 2nd-largest southern (right bank) tributary of the Ganges after the Yamuna River.	 Arabica and Robusta are the two varieties of coffee that are found in India. Which of the statements given above is/are correct? 				
2. It flows through four states: Chhattisgarh, Madhya	A. 1 and 2 only B. 2 and 3 only				
Pradesh, Uttar Pradesh, and Bihar.	C. 1 and 3 only D. 1, 2 and 3				
 It originates near Amarkantak Hill in the Gaurela- Pendra-Marwahi district of Chhattisgarh and finally merges with the Ganges River near Patna in Bihar. Which of the statements given above is/are correct? 	 128. Consider the following statements regarding 'Eretmoptera Murphyi': 1. Eretmoptera murphyi is changing the soil composition of Antarctica's Signy Island. 				
A. 1 and 2 only B. 2 and 3 only	 Eretmoptera Murphyi is a native species on Antarctic 				
C. 1 and 3 only D. /1, 2 and 3	Signy Island.				
125. Consider the following pairs:	Which of the statements given above is/are correct?				
Match1 Match2	A. 1 only B. 2 only				
1. Indus Gorge : Kashmir	C. Both 1 and 2 D. Neither 1 nor 2				
2. Bryce Canyon : US	129. Consider the following statements:				
3. Niagara Falls : Canada	1. Kiru Hydro Electric Project is proposed on River Ravi,				
Which of the pairs given above is/are correctly matched?	located in Kishtwar district of J&K.				
A. 1 only B. 1 and 2 only	2. The project is envisaged as a Run of River Scheme				
C. 2 and 3 only D. 1, 2 and 3	and uses the natural downward flow of rivers to capture the kinetic energy of water.				
126. Consider the following statements regarding overturning circulation:	 Other projects on Ravi River are Ratle Hydro Electric Project, and Salal Dam. 				
1. It is a global network of ocean currents that	Which of the statements given above is/are correct?				
redistributes heat, carbon, and nutrients across the	A. 1 and 2 only B. 2 and 3 only				
world's oceans.	C. 2 only D. 1, 2 and 3				
 The sinking of dense, oxygen-rich water from the surface drives the deeper limb of the overturning circulation. 	130. Which of the following statements is/are correct?1. The India State of Forest Report (ISFR) 2021 classifies				
	Goa's forest cover as " Moderately fire prone."				
 Overturning circulation plays a crucial role in maintaining climate stability on Earth. Molting Anterstic ice increases the formation of 	 Over the last two decades, Mizoram has seen the highest forest fires. 				
 Melting Antarctic ice increases the formation of Antarctic bottom water. 	 Forest Fire Prevention and Management Scheme (FFPM) is implemented by Forest Survey of India. 				
How many of the above statements is/are correct?					
A. Only One B. Only Two	Select the correct answer using the code given below:				
C. Only Three D. All Four	A. 1 and 2 only B. 2 and 3 only				
	C. 1 only D. 1, 2 and 3				
 127. Consider the following statements: Coffee plantation practices in India takes place in ecologically sensitive regions of the Western and Eastern Ghats. Tamil Nadu accounts for approximately 70% of India's total coffee production. 	 131. Which of the following statements regarding the 38th parallel line is/are correct? 1. The 38th parallel is a line of latitude that forms part of the border between North Korea and South Korea. 				

	2. The 38th parallel wa	s established as part of the Yalta	136. Consider the following pairs:				
	Conference.		Pass Link/Feature				
	Select the correct answer using the code given below:		1. Fotu La Pass - Sikkim with Autonomous Region of				
	A. 1 only	B. 2 only	Tibet, China.				
	C. Both 1 and 2	D. Neither 1 nor 2	 Rohtang Pass - Kullu Valley with the Lahaul and Spiti Valleys of Himachal Pradesh. 				
132	Consider the following statements regarding Vembanad		3. Shipika La Pass - Kinnaur district of Himachal				
	Lake:		Pradesh with Autonomous Region of Tibet, China.				
	1. It is the largest Ram	sar site in India.	4. Jelep La Pass - Leh with Kargil of Ladakh.				
 It is a source of four rivers: Meenachil, Achankovil, Pampa and Manimala. 			Which one of the following pairs is/are correctly matched?				
	Select the correct answe	er using the code given below:	A. 1, 2 and 3 only B. 2 and 3 only				
	A. 1 only	B. 2 only	C. 1, 3 and 4 only D. 1, 2, 3 and 4				
	C. Both 1 and 2	D. Neither 1 nor 2	137. Consider the following statements related to Small				
133. In the context of the Nicobar Islands, which of the			Island Developing Nations				
		the correct top-to-bottom	1. They were recognized as a distinct group of				
	arrangement for the isla		developing countries at the UN Conference on				
		a, Little Nicobar, Great Nicobar	Environment and Development.				
		licobar, Great Nicobar, Terassa	 They are located only in the Pacific Ocean. Select the correct answer from the code given below: 1 only 				
		t Nicobar, Terassa, Car Nicobar					
	D. Little Nicobar ,Teras	sa, Car Nicobar, Great Nicobar	A. 1 onlyB. 2 onlyC. Both 1 and 2D. Neither 1 nor 2				
134. With reference to hydrogen power projects, consider							
	the following statement	ts:	138. Consider the following pairs:				
		hydropower projects in the	Tourist Destination Location				
		ave increased in recent years.	1. Tawang Monestry : Arunachal Pradesh				
		oower project is located on river	2. Kamakhya Temple : Odisha				
	Ganga.	s given above is/are correct?	3. Nohkalikai Falls : Tripura 4. Dzukou Valley : Nagaland				
	A. 1 only	B. 2 only	 Dzukou Valley : Nagaland How many pairs given above are correctly matched? 				
	C. Both 1 and 2	D. Neither 1 nor 2	A. Only one pair B. Only two pairs				
			C. Only three pairs D. All four pairs				
135	-	statements regarding 'Subansiri					
	River'	terre ef the ellipse of Due have en star	139. Consider the following statements:				
	1. It is the largest tribu River.	tary of the Upper Brahmaputra	 Kurmis are a landowning farming community. The Kurmali language is a member of the Indo-Aryan 				
	-	· Hydroelectric project has been avity dam.	 The Kurmali language is a member of the Indo-Arya language family and belongs to the Bihari languag family. 				
	Which of the statement	s given above is/are correct?	Which of the statements given above is/are correct?				
	A. 1 only	B. 2 only	A. 1 only B. 2 only				
	C. Both 1 and 2	D. Neither 1 nor 2	C. Both 1 and 2 D. Neither 1 nor 2				

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140. Consider the following st floor:	atements related to Ocean	144. With reference to Zero Shadow Day, consider the following statements:				
1. Continental Shelf is the of the ocean floor.	e shallowest and widest part	 It occurs when the Sun is exactly overhead. This event happens twice a year at every point on 				
 Continental Slope is h such as octopuses and 	nome to deep sea creatures I squids.	Earth between the Tropic of Cancer and the Tropic of Capricorn.				
Which of the statements g	given above is/are correct?	Which of the statements given above is/are correct?				
A. 1 only	B. 2 only	A. 1 onlyB. 2 onlyC. Both 1 and 2D. Neither 1 nor 2				
C. Both 1 and 2	D. Neither 1 nor 2					
141. Which of the following Inc	lian states share border with	145. Which of the following discontinuities lies between the Mantle and Crust of the earth?				
Myanmar?	and states share border with	A. Repetti discontinuity				
, 1. Arunachal Pradesh	2. Nagaland	B. Guttenberg discontinuity				
3. Manipur	4. Mizoram	C. Moho discontinuity				
5. Tripura		D. Lehmen discontinuity				
-	using the code given below:	146. With reference to the Zoji La Pass, consider the following				
A. 1, 2, 3 and 4 Only	B. 1, 2 and 3 Only	statements:				
C. 3, 4, and 5 Only	D. 2, 3, 4 and 5 Only	1. It is a high mountain pass located in the Kargil district of Ladakh.				
142. Consider the following s	statements regarding Drug	 It is Asia's longest and strategic bi-directional tunnel. 				
Menace:		Which of the statements given above is/are correct?				
1. The golden crescent	area comprises Thailand,	A. 1 only B. 2 only				
Myanmar, Vietnam an	d Laos.	C. Both 1 and 2 D. Neither 1 nor 2				
2. The golden triangle	e area includes Pakistan,	147. With reference to the Gulf of Mannar, consider the				
Afghanistan and Iran.		following statements:				
Which of the statements g	given above is/are correct?	1. It is an inlet of the Indian Ocean, between				
A. 1 Only	B. 2 Only	southwestern India and eastern Maldives.				
C. Both 1 and 2143. Consider the following stat	D. Neither 1 nor 2	 It is bounded to the northeast by Rameswaram (island) and Adam's (Rama's) Bridge (a chain of sheals) 				
tribe:		shoals). 3. It is noted for its pearl banks and sacred chank.				
1. The tribe is a semi-r	nomadic tribe traditionally					
engaged in bird catchi	ng and hunting.	A. 1 and 2 only B. 2 and 3 only				
2. Their society is patriard	chal, and polygamy is a norm.	C. 1 and 3 only D. 1, 2 and 3 only				
 They are considered t Maharana Pratap. 	to have ancestral roots with	148. With reference to River Gandak, consider the following statements:				
4. It is a scheduled tribe	in Karnataka.	1. It is a significant river that flows through the				
Which of the statements given above is/are correct?		northern part of India and Nepal.				
A. 1, 2 and 4 only	B. 2 and 3 only	2. The major tributaries of the river include the				
C. 1, 3 and 4 only	D. 1 and 3 only	Mayangadi, Bari, Trisuli, Panchand.				

	W	Which of the statements given above is/are correct?			W	nich of the statement	ts given ab	ove is/are correct?		
	Α.	1 only	B. 2 only		Α.	1 and 2 only	В.	2 only		
	C.	Both 1 and 2	D. Neither 1 nor 2		C.	2 and 3 only	D.	1, 2 and 3		
149	. Wi	th reference to Vernal Equ	inox, which of the following	153	. Co	nsider the following	statement	s:		
	statements is correct?				1.	. The Aravallis is one of the oldest fold mountain on			ı	
	A.	A. It occurs in the Southern Hemisphere in September.				Earth.				
	Β.	· · · · · · · · · · · · · · ·			2.	 The highest peak in the Aravalli Range is Guru Peak on Mount Abu. 				
	C.				W	Vhich of the statements given above is/are correct?				
		D. It is also known as the Summer Solstice.			Α.	1 only	В.	2 only		
					C.	Both 1 and 2	D.	Neither 1 nor 2		
150			neric Rivers, consider the	154. Regarding the Great Rift Valley, consider the following						
		following statements:			statements:					
	1.	North Pacific/Atlantic re	only in the extratropical		1.	It is a massive geological formation that stretche			5	
	2	 One of the atmospheric rivers is called the Pineapple Express. 				around from northern Syria to central Mozambio				
	۷.					in East Africa.				
	W	nich of the statements giv	en above is/are correct?			It is home to the Ni				
		1 only	B. 2 only		3.	The valley divides Western Rift.	into the l	astern Rift and the	ž	
		Both 1 and 2	D. Neither 1 nor 2		W	nich of the statement	ts given ab	ove is/are correct?		
						A. 1 and 2 only B. 2 only				
151		With reference to Earth Hour, consider the following statements:				1 and 3 only		1, 2 and 3 only		
	1. Earth Hour is an annual event that encourages			155. Which of the following statements is true about						
			ssential lights for one hour	firnification? A. Firn is a type of sedimentary rock formed from						
	2	as a symbol of their com								
			hour is invest in our planet		compacted snow. B. Firn is a transitional stage between snow and glac					
	3.	 The government of India offers incentives to businesses and organizations that participate in 			ice.					
		-	their energy consumption		C.	Firnification occurs	s when ic	e melts and freezes	5	
	Which of the statements given above is/are correct?				repeatedly, forming layers of ice.					
		1 and 2 only	B. 2 and 3 only		D.	Firnification is a process that occurs exclusively			in	
	C.	1 and 3 only	D. None of the above			polar regions.				
152. Consider the following sta		nsider the following state sturbances:	ements regarding Western			With reference to Khondalite Stones, consider the following question:			ĩ	
			torms that originate in the		1.	 It is a type of metamorphic rock that is found in Western Ghats region of India. 			ĩ	
	 It is a series of cyclonic storms that origina Mediterranean region. 				r					
	2.	_	f snowfall that replenishes	2		2. They are commonly used as a decorative stone in construction.				
		the Himalayan glaciers during winter.			W	Which of the statements given above is/are correct?				
	3.	The absence of Western Disturbances caused the				1 only		2 only		
		north Indian plains to exp and cold days in Decemb	perience severe cold waves per 2022.		C.	, Both 1 and 2		Neither 1 nor 2		

_____ ANSWERS 1. Ans: B Moldova does not have a border with the Black Sea. It only has access through the Danube River. Hence, Exp: statement 3 is not correct. • The Prime Minister of India inaugurated the Sudarshan 4. Ans: A Setu (also known as the Okha-Beyt Dwarka Signature Bridge), India's longest cable-stayed bridge connecting Exp: the Okha mainland and the Beyt Dwarka island in Ganga: Gujarat. Hence, statement 1 is correct. The Ganga originates as **Bhagirathi** from Gangotri Bet Dwarka, is the second largest island off the Glacier, Uttarakhand at an elevation of 3, 892 m. Gujarat coast, after the Union Territory of Diu. Hence, Hence, statement 1 is correct. statement 2 is not correct. Many small streams comprise the headwaters of the The bridge, constructed as a part of National Highway Ganga. The important among these are Alaknanda, (NH) 51 that runs along the sea coast of Saurashtra, Dhauliganga, Pindar, Mandakini and Bhilangana. was built by the NH division of Gujarat Roads and At Devprayag, where Alaknanda joins **Bhagirathi**, the Buildings Department. river acquires the name Ganga. Hence, statement 2 is • Atal Setu is the longest bridge in India and also not correct. the longest sea bridge in the country. Hence, It traverses 2525 km before flowing into the Bay statement 3 is not correct. of Bengal. 2. Ans: C 5. Ans: C Exp: Exp: Cairns Group: Shipra (Khipra) River: Established: 1986 in Cairns, Australia Members: 19 agricultural exporting countries, It is a tributary of the Chambal River in Madhva Pradesh including Argentina, Australia, Brazil, Canada, and flows across the Malwa Plateau. Hence, statement Pakistan, and New Zealand. 1 is correct. • India is not a Member of Cairns Group. • It originates in the Vindhya Range from a hill called Stance: Advocates for liberalization of agricultural Kakri-Tekdi. Hence, statement 2 is correct. trade, meaning they generally support reducing Khan and Gambhir are its major tributaries. Hence, tariffs, subsidies, and other trade barriers that statement 3 is correct. hinder the free flow of agricultural products 6. Ans: D across borders. They believe this will benefit all Exp: countries by promoting efficiency and economic Black Sea: growth. The Black Sea is **bordered by** Ukraine to the north and Hence, Option C is correct. northwest, Russia and Georgia to the east, Türkiye to 3. Ans: A the south, and Bulgaria and Romania to the west. Exp: The Black Sea is linked to the Sea of Marmara through the Bosphorus Strait and then to the Aegean Sea (an elongated embayment of the Mediterranean Sea) through the Dardanelles Strait. Hence, statement 1 is Russia not correct. Romania The Black Sea is also connected to the Sea of Azov by the Strait of Kerch. Black Sea

- Hence, statement 2 is correct.
- The Black Sea is bordered by Ukraine to the north and northwest, Russia and Georgia to the east, Türkiye to the south, and Bulgaria and Romania to the west.
- Also, The bordering countries of the Black Sea can be remembered as BURGeR-T: Bulgaria, Ukraine, Russia, Georgia, Romania and Türkiye).



Hence, option D is correct.

21 PT SPRINT (2023) Geography Explanation

NIGER

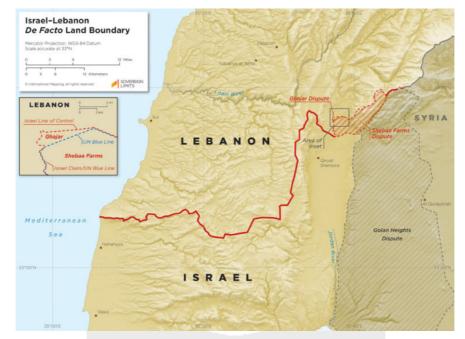
7. Ans: A Kinshasa, the capital of the Democratic Republic of the Exp: Congo, sits on the Congo River, the only African river that twice intersects the equator. Hence, statement 2 • Findings of the State of the Global Climate 2023 report released by the World Meteorological is correct. Organization (WMO): 9. Ans: C Contrasting Heating and Cooling Patterns in the North Exp: Atlantic: Bhutan: While the majority of the world's oceans are • Bhutan, a landlocked country, is situated between experiencing warming, relatively small regions, such as the subpolar North Atlantic Ocean, are experiencing India and China. Hence, statement 1 is correct. cooling. Hence, Statement 1 is correct. • The longest river in Bhutan is the Manas River. Hence, This cooling is linked to the slowdown of the Atlantic statement 2 is correct. Meridional Overturning Circulation (AMOC), a system • India is Bhutan's largest trading partner, accounting of ocean currents. for over 80% of Bhutan's total imports and exports. AMOC is a system of ocean currents that Hence, statement 3 is correct. circulates water within the Atlantic Ocean. bringing warm water north and cold water south. 10. Ans: D Hence, Statement 2 is correct. Exp: Hence, Both Statement I and Statement II are correct, • Libya: and Statement II is the correct explanation for • Libya is bordered by the Mediterranean Sea to Statement I. the north, Egypt to the east, Sudan to the 8. Ans: C southeast, Chad to the south, Niger to the Exp: southwest, Algeria to the west, and Tunisia to the Democratic Republic of Congo (DRC): northwest. It is 2nd largest country in Africa and the 11th largest in Hence, option D is correct. the world. Hence, statement 1 is correct. Crete MEDITERRANEAN SEA TUNISIA Gulf of Sirte Nalu Jabal al Gharb ALGERIA idi al Shati EGYPI Ubari Ghat Ghat

CHAD

SUDAN

Exp:

- The "Blue Line" refers to the demarcation line that separates the city of Jerusalem into two parts: West Jerusalem, which is predominantly Jewish, and East Jerusalem, which is predominantly Palestinian. This demarcation was established following the 1949 armistice between Israel and Jordan and was meant to be a temporary border.
- The Blue Line is not a physical barrier but rather a conceptual line on maps used to indicate the division between Israeli and Jordanian-controlled areas.
- The border between Israel and Lebanon is known as the "Blue Line". Hence, Statement I is not correct.
- It was set by the United Nations in 2000 after Israel withdrew its military from southern Lebanon. Hence, statement II is correct.
- Hence, Statement-I is incorrect, but Statement-II is correct.



12. Ans: C

Exp:

- Nordic-Baltic Cooperation:
 - The Nordic-Baltic cooperation is an informal regional cooperation format established in 1992, bringing together 5 Nordic (Finland, Sweden, Norway, Denmark, and Iceland) and 3 Baltic countries (Estonia, Latvia, and Lithuania).
 - Sweden holds the chairmanship of the NB8 in 2024.
- Hence, option C is correct.

13. Ans: B

Exp:

About Atmospheric River:

 The atmospheric river is a long, narrow band of moisture-filled air that transports significant amounts of water vapor from the tropics to higher latitudes.

Hence, statement 1 is correct.

- It is often associated with mT (Maritime Tropical) air mass.
- The "Pineapple Express" is a well-known example of atmospheric river storms that bring heavy rainfall to the US West Coast, particularly California. Hence, statement 2 is not correct.
 - This name originates from the fact that these storms draw moisture from the tropical waters near the Hawaiian Islands, resembling a "express" train of moisture originating from the vicinity of Hawaii, which is often associated with pineapples.

14. Ans: C

Pradhan Mantri Mudra Yojana:

 It is the Indian government's flagship initiative to provide affordable credit to micro and small enterprises, aiming to formalize their financial inclusion or "fund the unfunded." Hence, statement 1 is correct.

d

 Any Indian citizen with a business plan for a non-farm sector income-generating activity, including manufacturing, processing, trading, or the service sector, and requiring credit of less than Rs 10 lakh, can seek Micro Units Development & Refinance Agency Ltd. (MUDRA) loans under PMMY from a bank, Micro finance Institutions (MFI), or Non-Banking Financial Company (NBFC). Hence, statement 2 is correct.

15. Ans: D

Exp:

- A Marine Heat Wave (MHW) is an extreme weather event. It occurs when the surface temperature of a particular region of the sea rises to 3 or 4 degrees Celsius above the average temperature for at least five days. Hence, statement 1 is correct.
 - According to the National Oceanic and Atmospheric Administration (NOAA), MHWs can last for weeks, months or even years.
- The Extreme Event Attribution (EEA) technique determines the extent to which human-induced climate change influences the likelihood and severity of specific extreme weather events. Hence, statement 2 is correct.

16. Ans: C

Exp:

Key Facts About Kosovo:

- Kosovo, which has a majority Albanian population and a minority of Serbs, is a landlocked region bordered by Albania, Macedonia, Serbia, and Montenegro. Hence, Statement 1 is not correct
- Its capital and largest city is Pristina. Hence, Statement 2 is correct.
- According to the World Bank, Kosovo is a parliamentary republic and upper-middle-income country. It declared independence from Serbia on 17th February 2008 and is recognised as an independent country by more than 100 United Nations members.
 - India, Brazil, China, Russia, and Mexico have not recognised Kosovo as an independent country. Hence, Statement 3 is correct.
 - However, Serbia does not recognize Kosovo as an independent state and continues to claim it as the Autonomous Province of Kosovo and Metohija.

17. Ans: B

Exp:

- Lakshadweep:
 - India's smallest Union Territory, Lakshadweep is an archipelago consisting of 36 islands with an area of 32 sq km. Hence, statement 1 is not correct.

- It is a uni-district Union Territory and comprises 12 atolls, three reefs, five submerged banks, and ten inhabited islands.
- All Islands are 220 to 440 km away from the coastal city of Kochi in Kerala, in the emerald Arabian Sea.
- It is directly under the control of the Centre through an administrator. Hence, statement 2 is correct.

There are three main groups of islands:

- Amindivi Islands (Northernmost Islands)
- Laccadive Islands
- Minicoy Island (southernmost island)
 - All are tiny islands of Coral origin (Atoll) and are surrounded by fringing reefs.
 - The Capital is Kavaratti and it is also the principal town of the Union Territory.
- Organic Agricultural Area: The entire Lakshadweep group of islands has been declared as an organic agricultural area under the Participatory Guarantee System (PGS) of India. Hence, statement 3 is correct.

18. Ans: A

Exp:

Atlantic Meridional Overturning Circulation (AMOC):

- AMOC plays a crucial role in redistributing heat globally, influencing regional and global climates, especially moderating temperatures in Europe, North America, and near the correct.
- AMOC is a large-scale oceanic circulation system that transports warm surface waters from the tropics to the northern latitudes and returns cold, deep waters from the North Atlantic back towards the equator. Hence, statement II is correct.
- Hence, option A is correct because both Statement-I and Statement-II are correct, and Statement-II is the correct explanation for Statement-I.

19. Ans: A

Exp:

Humboldt's Enigma:

- Sparked by Alexander von Humboldt's observations, it questions the conventional notion that tropical regions, fueled by ample sunlight, are the primary centres of biodiversity on Earth.
- Humboldt's enigma has garnered increased attention in the field of ecology as researchers seek to understand the unexpected biodiversity found in mountain ecosystems.

- India's diverse mountain ranges, including the Himalayas especially Eastern Himalayas, serve as ideal settings to probe Humboldt's enigma.
- Hence, option A is correct.

20. Ans: A

Exp:

- The Panama Canal is an artificial 82 km waterway in Panama that connects the **Atlantic Ocean with the Pacific Ocean**. The canal cuts through the Isthmus of Panama and is a key conduit for maritime trade. **Hence**, **statement 1 is correct.**
- The Red Sea is a seawater inlet of the Indian Ocean, lying between Africa and Asia. The countries bordering the Red Sea are Egypt, Saudi Arabia, Yemen, Sudan, Eritrea and Djibouti (and not Ethiopia). Hence, statement 2 is not correct.

21. Ans: D

Exp:

- Thermokarst is a type of terrain that is characterized by irregular surfaces of marshy hollows and small hummocks (ridges), formed by the thawing of ice-rich permafrost. Hence, statement 1 is correct.
- The active rock glaciers could lead to the formation of thermokarst features, such as ponds or lakes, that could alter the hydrology, ecology, and carbon cycle of the region. Hence, statement 3 is correct.
- The Batagaika crater is an example of thermokarst, it is the biggest permafrost crater in the world, it belongs to the Sakha Republic, Russia. Hence, statement 2 is correct.

22. Ans: B

Exp:

Jhelum Basin of the Kashmir Himalayas :

- The Jhelum basin is drained by the upper Jhelum River, which originates from a deep spring at Vernag at Anantnag, situated at the base of the Pir Panjal range in the Kashmir Valley; the river passes through Srinagar and Wular Lake before entering Pakistan. Hence, statement 1 is not correct.
- As a tributary of the Indus River, the Jhelum contributes to the larger river system in the Indian subcontinent.
 - The river flows through Jammu and Kashmir and into Pakistan, where it joins the Chenab River.
 Hence, statement 2 is correct.
- The primary tributary is the Kishenganga (Neelum) River. The Kunhar River, another significant tributary, connects Pakistan-occupied Kashmir and Pakistan via

the Kohala Bridge in the Kanghan Valley. Hence, statement 3 is correct.

23. Ans: D

Exp:

• Western disturbances are extratropical storms that originate in the Mediterranean region and bring sudden winter rain and snow to the northwestern parts of the Indian subcontinent. They are driven by the westerlies and do not form tropical cyclones. Hence, option B is correct.

24. Ans: A

Exp:

Major and Minor Ports:

- Number of Major Ports:
 - There are 12 major ports and 200 non-major ports (minor ports) in the country.
 - Major ports include Deendayal (erstwhile Kandla), Mumbai, JNPT, Marmugao, New Mangalore, Cochin, Chennai, Kamarajar (earlier Ennore), V O Chidambaranar, Visakhapatnam, Paradip and Kolkata (including Haldia). Hence, statement 1 is correct.
- Major Ports vs Minor Ports:
 - Ports in India are classified as Major and Minor Ports according to the jurisdiction of the Central and State government as defined under the Indian Ports Act, 1908.
 - All the 12 Major Ports are governed under the Major Port Trusts act, 1963 and are owned and managed by the Central Government.
 - All the Minor Ports are governed under the Indian Port Act, 1908 and are owned and managed by the State Governments. Hence, statement 2 is not correct.

25. Ans: C

Exp:

- Khanij Bidesh India Limited (KABIL) has signed an agreement with Argentina's State-owned CAMYEN for exploration and development of five lithium brine blocks.
- Argentina is part of the world's "Lithium Triangle", along with Chile and Bolivia.
 - The three nations together have more than half of the world's total lithium resources.
 - Argentina also has the distinction of having the 2nd-largest lithium resources, 3rd-largest lithium reserves and 4th-largest lithium production in the world.
- Hence, option C is correct.

26. Ans: B

Exp:

- Sistan and Baluchestan province is the second largest province of the 31 provinces of Iran, after Kerman province, with an area of 180,726 km2. It is in the southeast of the country, bordering Afghanistan and Pakistan, and its capital is the city of Zahedan. Hence, pair 1 is correctly matched.
- Balochistan is a province of Pakistan. Located in the southwestern region of the country, Balochistan is the largest province of Pakistan by land area but is the

least populated one. Hence, pair 2 is correctly matched.

- Marib is the capital city of Marib Governorate, Yemen.
 Hence, pair 3 is not correctly matched.
- 27. Ans: C

Exp:

- Lake Victoria is the largest lake in Africa and the world's second-largest freshwater lake. Its shoreline is shared by Kenya (6%), Uganda (43%), and Tanzania (51%).
- Hence, option C is correct.



28. Ans: A

Exp:

Key Facts Related to Majuli Island :

- Majuli is a river island located in the Brahmaputra River in the northeastern state of Assam, India. Hence, statement 1 is not correct.
- It is recognized as the largest river island in the world.
 Hence, statement 2 is not correct.
- The island is surrounded by the Brahmaputra River and its tributaries, creating a unique fluvial landform. Wetlands known as Beels and Chaporis (islets) contribute to the ecological diversity of the region. Hence, statement 3 is correct.

29. Ans: C

Exp:

 The South China Sea is a marginal sea of the Western Pacific Ocean. It is bordered by Brunei Darussalam, Malaysia, Indonesia, the Philippines, Singapore, Thailand, Vietnam and China. Hence, statement I is correct.

- It is connected by the Taiwan Strait with the East China Sea and by the Luzon Strait with the Philippine Sea (both marginal seas of the Pacific Ocean). Hence, statement II is not correct.
 - The South China Sea is a contested maritime area that is the subject of territorial disputes between six countries: China, Brunei, Taiwan, Vietnam, Malaysia, and the Philippines.
- Hence, option C is correct because Statement-I is correct and Statement-II is not correct.

30. Ans: C

Exp:

- About ECOWAS (Economic Community of West African States): It is a regional grouping aimed to promote economic integration and shared development of the West African sub-region.
 - It was established in May 1975 by 15 West African countries in Lagos, Nigeria.
- Founding members: Benin, Burkina Faso, Côte d'Ivoire, The Gambia, Ghana, Guinea, Guinea Bissau,

Liberia, Mali, Mauritania, Niger, Nigeria, Sierra Leone, Sénégal, and Togo.

- Headquarters: Abuja, Nigeria.
- Hence, option C is correct.

31. Ans: A

Exp:

- India Meteorological Department (IMD) is the National Meteorological Service of the country and the principal government agency in all matters relating to meteorology and allied subjects. Hence, statement 1 is correct
- It warns against severe weather phenomena like tropical cyclones, norwesters, dust storms, heavy rains and snow, cold and heat waves, etc., which causes destruction of life and property. Hence, statement 2 is correct.
- Statement 2 is correctly explaining the statement 1.
- Hence, option A is correct.

32. Ans: B

Exp:

- Recently, the World Health Organization (WHO) has declared Cabo Verde as a Malaria-free country. Hence, statement 1 is correct.
- Geographical Location:
 - Cabo Verde, also known as Cape Verde, is a group of islands situated off the west coast of Africa.
 Hence, statement 2 is not correct.
 - It is located near Senegal and is the closest point to the African continent.
- Archipelago Structure:
 - The country is composed of ten islands and five islets.
 - These are divided into two main groups: the windward islands (Barlavento) and the leeward islands (Sotavento).
- Population:
 - The majority of the population in Cabo Verde is of mixed European and African descent. Hence, statement 3 is correct.
 - People of this mixed heritage are often referred to as "mestiço" or "Crioulo."
- Capital:
 - The capital city of Cabo Verde is Praia.
- Languages:
 - Portuguese is the official language.
 - Cape Verdean Creole, or simply Creole, is also widely spoken and is considered a significant part of the cultural identity.

33. Ans: C

Exp:

- The Indian Tsunami Early Warning Centre (ITEWC), part of the Indian National Centre for Ocean Information Services (INCOIS) in Hyderabad, confirmed that India faces no tsunami threat despite a 7.5 magnitude earthquake near Honshu, Japan. Hence, statement 1 is correct.
- The Pacific Ocean Tsunami Warning Centre (PTWC) and Japan Meteorological Agency (JMA) issued a tsunami bulletin for Japan.
- ITEWC monitors sea level changes near the epicentral region and reports in case of a tsunami threat. Hence, statement 2 is correct.
 - Epicentre is a point on the Earth's surface directly above the hypocenter (or focus) of an earthquake. It is the location on the surface of the Earth that is directly above the earthquake's point of origin within the Earth's crust. Hence, statement 3 is correct.

34. Ans: D

Exp:

- Mount Marapi, which means "Mountain of Fire", is the most active volcano on Sumatra island, Indonesia. Indonesia sits on the Pacific's "Ring of Fire" and has 127 active volcanoes. Hence, statement 1 is not correct.
- Its most deadly eruption was in April 1979, when 60 people were killed. Recently, the Marapi volcano erupted, ejecting ash up to 3,000 meters (9,840 feet) into the air and causing casualties. Hence, statement 2 is not correct.



• Kenya is located in East Africa. Hence, statement 1 is not correct.

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- Its terrain rises from a low coastal plain on the Indian Ocean to mountains and plateaus at its center.
- Kenya's location between the Indian Ocean and Lake Victoria means that people from all over Africa and the Middle East have traveled and traded across it for centuries.
 - This has created a diverse culture with many ethnic groups and languages.
- The bones of one of the earliest human ancestors ever found were discovered in **Kenya's Turkana Basin**.
 - Lake Turkana, the world's largest desert lake, is part of the Omo-Turkana basin, which stretches into four countries: Ethiopia, Kenya, South Sudan and Uganda. Hence, statement 2 is correct.

36. Ans: D Exp:

- The Himalayas are a major factor in the formation of the monsoon winds in India.
- During the summer months, the landmass over the Indian subcontinent heats up rapidly, leading to the formation of a low-pressure system. Hence, Statement 1 is correct.
 - The Himalayas, which act as a barrier, prevent the cool, dry air from the north from flowing into the region, resulting in a pressure gradient that draws in warm, moist air from the Indian Ocean.
- The Thar Desert, also known as the Great Indian Desert, is a crucial factor in the formation of monsoon winds in India. Hence, Statement 2 is correct.
- It acts as a rain shadow area for the Bay of Bengal branch of the monsoon, meaning that it receives very little rainfall due to the barrier created by the Aravalli Mountain range.
 - Thus, the Arabian branch of the monsoon, which moves parallel to the Thar Desert, also leads to very little rainfall in the nearby regions. Hence, Statement 3 is correct.

37. Ans: C

Exp:

Gulf of Aden:

- The Gulf of Aden, an arm of the Indian Ocean is situated between Yemen on the south coast of the Arabian Peninsula and Somalia in Africa. Hence, statement 1 is correct.
 - It is bounded to the south by Somalia and the Socotra Islands, north by Yemen, east by the Arabian Sea, and west by Djibouti.

- The gulf roughly 900 kilometers long and 500 kilometers wide is an important waterway for transporting Persian Gulf oil.
- The Gulf connects the Red Sea to the Arabian Sea via the Strait of Bab el Mandeb. Hence, statement 2 is correct.
 - It forms an essential oil transport route between Europe and the Far East.

38. Ans: C

Exp:

Volcano-Prone Regions in the World:

- Mid-Continental Belt:
 - This belt includes the volcanoes of Alps mountains, Mediterranean Sea (Stromboli, Vesuvius, Etna, etc.), volcanoes of Aegean Sea, Mt. Ararat (Turkey), Elburz, Hindu Kush and Himalayas. Hence, pair 1 is correctly matched
- Circum-Pacific Belt:
 - The Pacific Ring of Fire has a total of 452 volcanoes.
 - Most of the active volcanoes are found on its western edge, from the Kamchatka Peninsula in Russia, through the islands of Japan and Southeast Asia, to New Zealand. Hence, pair 2 is correctly matched.

Mid Atlantic Ridge:

- The Mid-Atlantic Ridge separates the North and South American Plate from the Eurasian and African Plate. Iceland is located on the Mid-Atlantic Ridge, technically the longest mountain range in the world, but on the floor of the Atlantic Ocean.
- Iceland is home to 33 active volcanoes, the highest in Europe. This unique landscape has given Iceland the epithet, 'Land of Fire and Ice'.
 - Eyjafjallajokull, one of Iceland's most famous volcanoes, erupted in 2010, causing a widespread ash cloud. Hence, pair 3 is correctly matched.

39. Ans: B

Exp:

India Meteorological Department:

- IMD was established in 1875. It is the National Meteorological Service of the country and the principal government agency in all matters relating to meteorology and allied subjects.
 - It works as an agency of the Ministry of Earth Sciences of the Government of India. Hence, statement 1 is not correct.

- It is headquartered in New Delhi.
- IMD is also one of the six Regional Specialized Meteorological Centres of the World Meteorological Organization.
- Hence, statement 2 is correct.

40. Ans: C

Exp:

Antarctic Circumpolar Current (ACC):

- ACC is the only current in the global ocean to close upon itself in a circumpolar loop.
 - This trait makes the ACC the most important current in the Earth's climate system because it links the Atlantic, Pacific and Indian Oceans and is the primary means of inter-basin exchange of heat, carbon dioxide, chemicals, biology and other tracers. Hence, statement 1 is correct.
- The ACC is created by the combined effects of strong westerly winds across the Southern Ocean, and the big change in surface temperatures between the Equator and the poles. The current flows from west to east around Antarctica. Hence, statement 2 is correct.
- Ocean density increases as water gets colder and as it gets more salty. The warm, salty surface waters of the subtropics are much lighter than the cold, fresher waters close to Antarctica.
 - The depth of constant density levels slopes up towards Antarctica. The westerly winds make this slope steeper, and the ACC rides eastward along it, faster where the slope is steeper, and weaker where it's flatter.

41. Ans: A

Exp:

- Recently, Bhutan's King has announced plans to build a massive "international city" in an area of over 1,000 sq. km. on its border with Assam. This project is known as the Gelephu Project. Hence, statement 1 is correct.
- Bhutan shares a border with four Indian states namely West Bengal, Sikkim, Assam, and Arunachal Pradesh. Hence, statement 2 is not correct.

42. Ans: C

Exp:

- The Persian Gulf is bordered by Iran, Iraq, Kuwait, Saudi Arabia, Bahrain, Qatar, the United Arab Emirates, and Oman. **Hence, option C is correct.**
- The Persian Gulf is connected to the Gulf of Oman by the Bab al-Mandab Strait.
 - The Strait of Hormuz is situated between Qeshm Island and the Iranian coast in the north and the

Musandam Peninsula of the Arabian Peninsula in the south.

• Persian Gulf countries are major producers of crude oil and natural gas.

43. Ans: C

Exp:

- The saiga antelope is a large, nomadic, migratory herbivore that lives across the Eurasian Steppe. Hence, Statement 1 is correct.
 - It's found in Kazakhstan, Mongolia, the Russian Federation, Turkmenistan, and Uzbekistan. Hence, Statement 2 is correct.
- It belongs to the family of Bovidae(order Artiodactyla).
- The Saiga has two subspecies: Saiga tatarica tatarica (found in most of the range) and Saiga tatarica mongolica (found only in Mongolia).
- Typical habitat consists of flat open areas covered with low-growing vegetation, allowing animals to run quickly. Hence, Statement 3 is correct.
- They have an unusual hanging nose, which makes them look like a camel, although they are goat-sized, and male saigas have horns.

44. Ans: A

Exp:

India's Major Initiatives Related to Antarctica:

- India acceded to the Antarctic Treaty in 1983, received the consultative status on the 12th September, 1983.
- National Centre for Polar and Ocean Research (erstwhile National Centre for Antarctic and Ocean Research) is India's premier R&D institution responsible for the country's research activities in the Polar and Southern Ocean realms.
- The Indian Antarctic Act of 2022 regulates visits and activities in Antarctica, covering mineral protection, native plant conservation, and banning non-native bird introductions.
- Presently, India has two operational research stations at Antarctica – Maitri and Bharati.
 - Dakshin Gangotri was the first station to be built before 1985 but is no longer operational.
- Hence, option A is correct.

45. Ans: C

Exp:

- El Nino:
 - It is a natural phenomenon that involves a periodic warming of the surface waters in the equatorial Pacific Ocean. Hence, statement 1 is correct.

- The word "El Niño" means "Little Boy" in Spanish.
- It is one of the two phases of a climate pattern called El Niño-Southern Oscillation (ENSO). Hence, statement 2 is correct.
- Over India, it has the effect of suppressing the monsoon rainfall.
- Indian Ocean Dipole (IOD):
 - The IOD is an atmosphere-ocean phenomenon that occurs in the Indian Ocean.
 - It's characterized by a disparity in sea surface temperatures between the eastern and western Indian Oceans. Hence, statement 3 is correct.

46. Ans: C

Exp:

Kavach System:

- Kavach is a cab signaling train control system with anticollision features developed by the Research Design and Standards Organisation (RDSO) in association with three Indian vendors. Hence, Statement 1 is correct.
 - It has been adopted as our National Automatic Train Protection (ATP) System.
- It adheres to Safety Integrity Level-4 (SIL-4) standards and acts as a vigilant watchdog over the existing signaling system, alerting the loco pilot when approaching a 'red signal' and applying automatic brakes if necessary to prevent overshooting the signal. Hence, Statement 2 is correct.
 - The system also relays SoS messages during emergency situations.
- It features centralized live monitoring of train movements through the Network Monitor System.
 - The Indian Railways Institute of Signal Engineering & Telecommunications (IRISET) in Secunderabad, Telangana hosts the 'Centre of Excellence' for Kavach. Hence, Statement 3 is correct.

47. Ans: D

Exp:

- Earthquake swarms are sequences of mostly small earthquakes with no identifiable mainshock.
 - They can be caused by various factors, such as tectonic plate movements, fluid injection or extraction, or magma movement.
- When magma moves near the Earth's surface, it creates pressure and stress in the surrounding rocks, which can result in fractures and seismic waves.
- These seismic waves are detected as earthquake swarms, and can indicate that a volcanic eruption is imminent or ongoing. Hence, option D is correct.

- For example, the recent eruption of the Cumbre Vieja Volcanic Ridge in La Palma, Canary Islands, was preceded by a series of seismic swarms that started in late October 2021.
- Therefore, earthquake swarms can be a sign of volcanic activity, especially if they occur near active volcanoes or along tectonic plate boundaries.

48. Ans: B

Exp:

- About:
 - Volcanoes are openings or vents where lava, rocks, and steam erupt onto the Earth's surface.
 - They result from both their own eruptions and the general formation of the planet through the movement and collision of tectonic plates.
- Types of Volcanoes:
 - Based on Frequency of Eruption:
 - Active Volcanoes:
- They erupt frequently and are mostly located in the Pacific Ring of Fire, which includes New Zealand, Southeast Asia, Japan and the western coast of the Americas. Hence, statement 1 is correct.
 - About 90% of all earthquakes worldwide strike within this region.
- Volcanic activity is linked to the movement and collision of tectonic plates. Hence, statement 2 is correct.
- Examples include Kilauea in Hawaii and Santa Maria in Guatemala. Hence, statement 3 is not correct.

O Dormant Volcano:

- These are not extinct but have not erupted in recent history. The dormant volcanoes may erupt in future.
- Example: Mount Kilimanjaro, located in Tanzania, also the highest mountain in Africa, is known to be a dormant Volcano.

• Extinct or Inactive Volcanoes:

- These have not worked in the distant geological past.
- Example: Dhinodhar hill, Gujarat.

49. Ans: D

Exp:

- Somalia is situated in the Horn of Africa, bordered by the Gulf of Aden to the north, the Indian Ocean to the east, Kenya and Ethiopia to the west, and Djibouti to the northwest. Hence, statement 1 is not correct.
 - Mogadishu is the capital and largest city in Somalia.
- The country features diverse landscapes including arid plains, plateaus, highlands, and mountain ranges.

- The northern part of Somalia includes the Golis Mountains, while the southern region is characterized by savannas and grasslands.
- Somalia has several islands off its coast, including the Bajuni Islands and the Socotra Archipelago, which includes islands like Socotra, Abd al Kuri, and Samha. However, the Socotra Archipelago is administered by Yemen. Hence, statement 2 is not correct.

50. Ans: A

Exp:

Gulf of Guinea (GoG):

- It is an inlet of the Atlantic Ocean on the western African coast, extending westward from Cape Lopez in Gabon to Cape Palmas in Liberia. Hence, statement A is not correct.
- It is found at the junction of the Prime Meridian and the Equator at 0°0'N and 0°0'E. Hence, statement B is correct.
 - Major rivers that drain into the Gulf of Guinea include the Volta and Niger rivers.

- The GoG is one of the world's most dangerous gulfs because of the widespread piracy that has severely affected many countries in West Africa along with other international countries.
- The GoG region accounts for more than 35% of the world's total petroleum reserves. Hence, statement C is correct.
 - Several minerals including diamonds, uranium, copper, etc., are found here.
 - The principal economic activities of the Gulf of Guinea region are petroleum exploration, mining and gas flaring, port operations, and fishing.
- The 16 coastal countries that are situated along the Gulf of Guinea are Angola, Benin, Cameroon, Cote d'Ivoire, Democratic Republic of Congo, Republic of Congo, Guinea, Equatorial Guinea, Guinea-Bissau, Gabon, Nigeria, Ghana, São Tomé and Principe, Togo and Sierra Leone. Hence, statement D is correct.
- Hence, option A is correct.

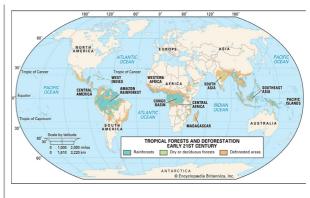


51. Ans: C

Exp:

Equatorial Rainforests:

- About:
 - Equatorial rainforests are lush, biodiverse forests found near the equator in tropical regions.
 - These forests typically lie within 10 degrees latitude north or south of the equator and are characterized by high temperatures and heavy rainfall throughout the year. Hence, statement 1 is correct.



Key Features:

- Climate: They experience a hot and humid climate with temperatures consistently high year-round, usually averaging around 25-27°C (77-81°F). Rainfall is abundant, often exceeding 2,000 millimeters (80 inches) annually, leading to the term "rainforest." Hence, statement 2 is correct.
- Biodiversity: Equatorial rainforests are among the most diverse ecosystems on Earth, housing an incredibly rich variety of plant and animal species.
 - These forests contain a myriad of species of trees, plants, insects, birds, mammals, and other organisms, many of which are endemic to these regions.
- Flora and Fauna: The vegetation in equatorial rainforests is characterized by tall trees forming a dense canopy that shades the forest floor, creating a multi-layered ecosystem. Hence, statement 3 is correct.
 - A variety of plant species, including epiphytes (plants growing on other plants), lianas (climbing vines), and numerous species of trees, contribute to the rich biodiversity.

52. Ans: A

Exp:

- Atal Tunnel: Atal Tunnel (also known as Rohtang Tunnel) is a highway tunnel built under the Rohtang Pass in the eastern Pir Panjal range of the Himalayas on the Leh-Manali Highway in Himachal Pradesh, India. Hence, statement 1 is not correct.
- Jawahar Tunnel: It is also called Banihal Tunnel. The length of the tunnel is 2.85 km.
 - The tunnel facilitates round-the-year road connectivity between Srinagar and Jammu. Hence, statement 2 is not correct.
- Recently, an under-construction Silkyara-Barkot tunnel along the Yamunotri National Highway in Uttarkashi district, Uttarakhand, collapsed, trapping a significant number of workers inside.
 - The Silkyara-Barkot tunnel is part of the ambitious Char Dham all-weather road project of the Central Government. Hence, statement 3 is correct.

53. Ans: D

Exp:

 According to research conducted at the Advanced Photon Source of Argonne National Lab and PETRA III of Deutsches Elektronen-Synchrotron in Germany, a new mysterious layer called the E prime layer has formed on the outer part of the Earth's core. **Hence**, **Statement 1 is not correct.**

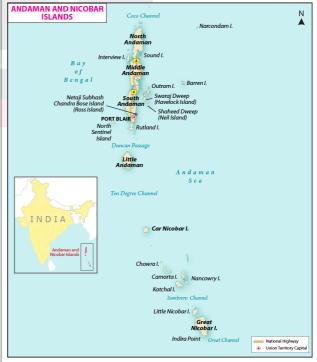
- This happened because surface water penetrated deep into the planet, changing the composition of the outer region of the liquid metal core. Hence, Statement 2 is not correct.
- Observations by scientists highlight the chemical reactions occurring when subducted water interacts with core materials under high pressure.
- This interaction results in the creation of a distinct layer in the outer core characterized by high hydrogen content and low silicon levels, forming a film-like structure.
- This finding suggests a more intricate global water cycle than previously recognized. The altered core layer carries significant implications, shedding light on the interconnected geochemical processes that link surface water cycles with the deep metallic core. Hence, Statement 3 is not correct.

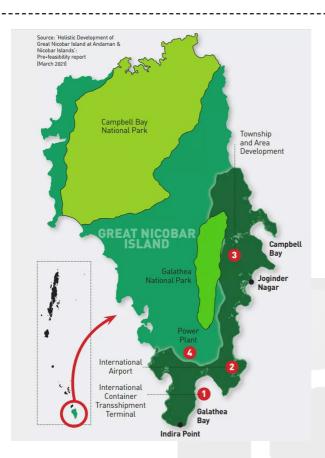
54. Ans: D

Exp:

- The correct order from North to south is -
 - Barren Island, Little Andaman Island, Car Nicobar Island, Galathea bay, Indira Point.

• Hence, Option D is correct.





55. Ans: B

Exp:

- Gondwana Coal Fields (250 million years old):
 - Gondwana coal makes up to 98% of the total reserves and 99% of the production of coal in India.
 - Gondwana coal forms India's metallurgical grade as well as superior quality coal.
 - It is found in Damodar (Jharkand-West Bengal), Mahanadi (Chhattisgarh-Odisha), Godavari (Maharashtra), and Narmada valleys. Hence, Statement 2 is correct.
 - Tertiary Coal Fields (15 60 million years old):
 - Carbon content is very low but is rich in moisture and sulphur. Hence, Statement 3 is not correct.
 - Tertiary coalfields are mainly confined to extrapeninsular regions. Hence, Statement 1 is not correct.
 - Important areas include Assam, Meghalaya, Nagaland, Arunachal Pradesh, Jammu and Kashmir, Himalayan foothills of Darjeeling in West Bengal, Rajasthan, Uttar Pradesh, and Kerala.

56. Ans: A

Exp:

 Tantalum, a rare metal with remarkable properties, has been discovered in the sands of the Sutlej River in Punjab by a team of researchers from the Indian Institute of Technology (IIT), Ropar.

57. Ans: A

Exp:

- The Ben Gurion Canal is a proposed sea-level canal that would cut through the Negev Desert in Israel, starting from the Gulf of Aqaba (the eastern arm of the Red Sea) and extending to the Eastern Mediterranean coast. Hence, option A is correct.
- The canal would provide an alternative maritime route between Europe and Asia, bypassing the Suez Canal, which is controlled by Egypt and runs north to south across the Isthmus of Suez in Egypt, connecting the Mediterranean Sea and the Red Sea.
- The other options are incorrect because they refer to different canals or waterways that are not related to the Ben Gurion Canal project.



58. Ans: C

Exp:

Ice Sheet:

- An ice sheet is essentially a mass of glacial ice that covers more than 50,000 square kilometres of land roughly large enough to blanket Uttarakhand in ice.
- There are two major ice sheets in the world today: Greenland ice sheet and Antarctica ice sheet. Hence, statement 1 is correct.
- Together, they contain about two-thirds of all the freshwater on Earth. Hence, statement 2 is correct.

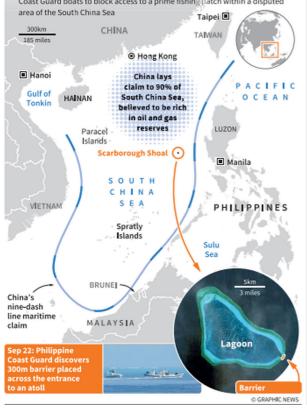
Exp:

South-China Sea:

- The South-China Sea is bordered by China and Taiwan to the north, the Indo-Chinese peninsula (including Vietnam, Thailand, Malaysia, and Singapore) to the west, Indonesia and Brunei to the south, and the Philippines to the east (referred to as the West Philippine Sea).
 - It is connected by the Taiwan Strait with the East China Sea and by the Luzon Strait with the Philippine Sea (both marginal seas of the Pacific Ocean Hence, both statements 1 and 2 are not correct.
- The major island and reef formations in the South China Sea are the Spratly Islands, Paracel Islands, Pratas, the Natuna Islands and Scarborough Shoal.

Hence, statement 3 is not correct.

Philippines removes China sea barrier The Philippines has removed a floating barrier recently installed by Chinese Coast Guard boats to block access to a prime fishing patch within a disputed



60. Ans: B

Exp:

Chabahar Port:

- Chabahar is Iran's only oceanic port. Hence, statement 1 is not correct.
- It is situated in Sistan and Baluchistan Province, on the Makran coast. Hence, statement 2 is correct.
- There are two main ports in Chabahar the Shahid Kalantari port and the Shahid Beheshti port. Hence, statement 3 is correct.
 - The Shahid Kalantari port was developed in the 1980s.
 - Iran had offered India the project of developing the Shahid Beheshti port which was well received by India.



61. Ans: A

Exp:

- Cyclones in the Bay of Bengal (BOB) are relatively more frequent and intense than those of the Arabian Sea. Hence, Statement 1 is not correct.
 - The Bay of Bengal typically sees multiple cyclonic events during the tropical cyclone season, which is primarily from April to December.
- The BOB usually has higher sea surface temperatures, especially during the pre-monsoon and post-monsoon seasons, providing the necessary energy and moisture for cyclone formation and intensification. Hence, Statement 2 is correct.
- The convergence of winds in the BOB, combined with the Coriolis Force (resulting from the Earth's rotation), creates an environment suitable for cyclone genesis. These converging winds form areas of low pressure, which can develop into tropical disturbances and cyclones. Hence, Statement 3 is correct.

Exp:

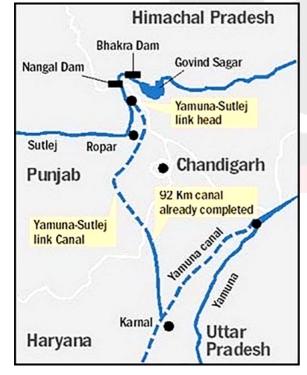
- Tibet is the highest region on Earth, with an average elevation of 4,900 meters. Hence, statement 1 is not correct.
- The highest elevation in Tibet is Mount Everest.Hence, statement 2 is not correct.
- In 1951 Tibetan leaders were forced to sign a treaty dictated by China. The treaty, known as the "Seventeen Point Agreement", professes to guarantee Tibetan autonomy and to respect the Buddhist religion but also allows the establishment of Chinese civil and military headquarters at Lhasa (Tibet's capital).Hence, statement 3 is not correct.

63. Ans: B

Exp:

- Sutlej-Yamuna Link Canal Dispute is associated with the Punjab and Haryana states of India.
- Sutlej Yamuna Link (SYL) Canal runs about 121 km in Punjab and 90 km in Haryana.

Hence, option B is correct.



64. Ans: B

Exp:

• The Gaza Strip is situated in the eastern Mediterranean basin, sharing borders with Egypt in the southwest and

Israel to the north and east. To the west, it is bounded by the Mediterranean Sea. Hence, statement 1 is not correct.



• Gaza Strip is one of the most densely populated areas globally, with over 2 million residents living in a tiny area.

The term "open air prison" has been widely used by academics, activists, and journalists to characterise the conditions in Gaza. Hence, statement 2 is correct.

65. Ans: B

Exp:

Ken and Betwa Rivers:

- Ken and Betwa rivers originate in MP and are the tributaries of Yamuna. Hence, statement 1 is correct.
- Ken meets with Yamuna near Banda district of Uttar Pradesh and Betwa joins Yamuna in Hamirpur district of UP.
- Rajghat, Paricha and Matatila dams are over Betwa river. Hence, statement 2 is not correct.
- Ken River passes through Panna tiger reserve. Hence, statement 3 is correct.



Exp:

• The Sinai Peninsula is a triangle-shaped peninsula in Egypt.

Hence, statement 1 is not correct.

The peninsula is bordered by the Mediterranean Sea to the north, the Red Sea to the south, and the Gulf of Aqaba to the east.The peninsula includes the Suez Canal, which is a man-made waterway that connects the Mediterranean Sea to the Red Sea.

Hence, statement 2 is not correct.

67. Ans: A

Exp:

- Amazon Rainforest are large tropical rainforests occupying the drainage basin of the Amazon River and its tributaries in northern South America and covering an area of 6,000,000 square km.
 - The Amazon Basin supports the world's largest rainforest, which accounts for more than half the total volume of rainforests in the world.
- Comprising about 40% of Brazil's total area, Peru, and also parts of Guyana, Colombia, Ecuador, Bolivia, Suriname, French Guiana, and Venezuela, the Amazon River Basin is the world's largest drainage system. Hence, statement 1 is correct.
- It is bounded by the Guiana Highlands to the north, the Andes Mountains to the west, the Brazilian Central Plateau to the south, and the Atlantic Ocean to the east. Hence, statement 2 is not correct.

68. Ans: B

- Mechanism of Marine Cloud Brightening:
 - In clean maritime air, clouds primarily form from sulfates and sea salt crystals, which are relatively scarce, leading to larger droplets with lower light reflection. Hence, statement 1 is correct but statement 2 is not correct.
 - Marine cloud brightening (MCB) seeks to boost marine cloud reflectivity (albedo), making clouds whiter and brighter.
 - It involves using water cannons or specialized vessels to release fine sea water droplets into the atmosphere.
 - As these droplets evaporate, they leave behind salt particles, serving as cloud condensation nuclei that foster the formation of denser, brighter clouds.



Potential Benefits:

- MCB has the potential to lower sea surface temperatures in targeted areas, potentially reducing the frequency and severity of coral bleaching events. Hence, statement 3 is correct.
- This could provide a lifeline for corals, enabling their survival and recovery while the world transitions away from fossil fuels.

69. Ans: B

Exp:

- In Southeast Asia cyclones are called Typhoons. Hence, pair 1 is correctly matched.
- In North Atlantic and Eastern Pacific it is called Hurricanes. Hence, pair 2 is not correctly matched.
- In West Africa and Southern USA it is called Tornados.
 Hence, pair 3 is correctly matched.
- Hence, Option (b) is correct.

70. Ans: A

Exp:

- Kosovo is a landlocked country in Southeast Europe that borders four other countries:
 - Albania to the southwest
 - Montenegro to the west
 - Serbia to the north and east
 - North Macedonia to the southeast
- Hence, Option A is correct.



71. Ans: C

Exp:

Key Facts Related to Tanzania:

- About: Tanzania is the largest country in East Africa. With eight neighbors, it is among the top 10 countries in the world with the most international borders. Hence, statement 1 is correct.
 - The islands of Zanzibar, Pemba and Mafia are also a part of Tanzania.



• Capital: Dar es Salaam is the administrative capital of the country while Dodoma is the legislative capital.

Currency: Tanzanian shilling

- Landform:
 - Its northern region has the southern part of Lake Victoria, which is the source of the River Nile.
 - Also, in the north is the World famous Ngorongoro Crater, which is the world's largest intact volcanic caldera. Hence, statement 2 is correct.
 - The Northeastern part of the country is mountainous. This region is home to Mount Meru, an active volcano, and Mount Kilimanjaro, the tallest mountain in Africa and the highest single free-standing mountain in the world.
 - In the west lies Lake Tanganyika, the world's second deepest lake.
 - The eastern region has coastal lowlands along the Indian Ocean.

72. Ans: A

Exp:

Krishna River:

- Source: It originates near Mahabaleshwar (Satara) in Maharashtra.
 - It is the second biggest river in peninsular India after the Godavari River.

Drainage: It runs from four states Maharashtra (303 km), North Karnataka (480 km) and the rest of its 1300 km journey in Telangana and Andhra Pradesh before it empties into the Bay of Bengal.

Tributaries:

- Right Bank Tributaries: The Ghatprabha, the Malprabha and the Tungabhadra.
- Left Bank Tributaries: The Bhima, the Musi and the Munneru



Hydropower Development:

 The major Hydro Power stations in the basin are Koyna, Tungabhadara, SriSailam, Nagarjuna Sagar, Almatti, Naryanpur, Bhadra.

- Mythology:
 - Krishna is a mighty east flowing river of peninsular India. It is the same river as Krsnavena in the Puranas or Krsnaveni in the Yoginitantra.
 - It is also known as Kanhapenna in Jatakas and Kanhapena in the Hathigumpha inscription of Kharavela.
- Hence, option A is correct.

73. Ans: A

Exp:

 West Bank: The West Bank is sandwiched between Israel and Jordan. One of its major cities is Ramallah, the de facto administrative capital of Palestine. Israel took control of it in the 1967 war and has over the years established settlements there. Hence, pair 1 is not correct.

- Gaza: The Gaza Strip located between Israel and Egypt. Israel occupied the strip after 1967, but relinquished control of Gaza City and day-to-day administration in most of the territory during the Oslo peace process. In 2005, Israel unilaterally removed Jewish settlements from the territory, though it continues to control international access to it.Hence, pair 2 is correct.
- Golan Heights: The Golan Heights is a strategic plateau that Israel captured from Syria in the 1967 war. Israel effectively annexed the territory in 1981. Recently, the USA has officially recognized Jerusalem and Golan Heights as a part of Israel. Hence, pair 3 is not correct.



Exp:

Azerbaijan:

- Azerbaijan is a country in Asia that is bordered by Russia, Georgia, Armenia, and Iran.
 - The east of the country is bordered by the Caspian Sea.
 - Much of the north and west is covered by the Caucasus Mountains.
- Capital city: Baku.
- Azerbaijan is abundant in oil and natural gas.
- Yanar Dağ, a famous site in Azerbaijan, has a natural eternal fire fueled by seeping natural gases, burning for over 65 years along the Caspian Sea. This unique phenomenon aligns with Azerbaijan's nickname, "The Land of Fire."



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• Hence, option B is Correct.



75. Ans: C

Exp:

Coup in Gabon:

- About: Gabon, a Central African nation, rich in oil but plagued by poverty and political instability, has witnessed another coup attempt by a group of mutinous soldiers who claimed to have seized power and placed the President of the country under house arrest.
 - Coup attempt took place due to allegations of election fraud and corruption against Gabon's President Ali Bongo Ondimba, reflecting the growing discontent within the nation.
- Geography:
 - Gabon, a country surrounded by the Atlantic Ocean in the west, is a former French colony and retains strong ties to France and French language and culture. The capital is Libreville. Hence, statement 1 is not correct.
 - It shares land borders with Cameroon, Equatorial Guinea, and Republic of Congo. Hence, statement 2 is not correct.
 - Gabon has a population of 2.3 million (2021) and forests covering 88% of its territory.
 - Gabon is widely described as 'Africa's last Eden', the Loango National Park is one of the country's best wildlife-watching spots. Hence, statement 3 is correct.



Hence, statement 1 is not correct.

76. Ans: D

- Abhilash Tomy, former Commander in the Indian Navy who became the first Indian to go around the world on a sailboat solo has now attained another record of completing a solo circumnavigation when he made podium finish at the Golden Globe Race (GGR), 2022.
 - He is currently working with the Indian Space Research Organisation (ISRO) on its manned space mission, Gaganyaan, advising on recovery of astronauts at sea.
 - He is working to assist in the recovery of astronauts once the capsule splashes into the sea on return.
- The Golden Globe Race is a non-stop, solo, unassisted yacht race around the world which was held for the first time in 1968-69. Hence, statement 1 is not correct.-
 - The second edition of the race was held 50 years later, in 2018.
 - The sailing is along a stipulated route, rounding the three great capes, the Cape of Good Hope in South Africa, Cape Leeuwin in Australia and Cape Horn in Chile. Hence, statement 2 is not correct.

77. Ans: A

Exp:

El Nino-Southern Oscillation (ENSO):

- It is a climate phenomenon resulting from the interaction between ocean and atmospheric conditions.
 - The "southern oscillation" component refers to differences in sea-level air pressure over the western and eastern Pacific Oceans.
- El Nino and La Nina represent the warm and cool phases of the El Nino-Southern Oscillation (ENSO) cycle. Hence, statement 1 is not correct.
 - El Nino and La Nina episodes typically occur every 2 to 7 years. La Nina events may last between one and three years.
 - However, it is rare for El Nino events to last longer than a year.
 - Multi-year El Niño and La Nina events are those that persist for more than one year without returning to normal conditions in between.
 - In 2023, La Nina concluded a three-year period, and El Nino made its presence felt. Such long-lasting ENSO phases are unusual.
- Impacts of El Nino:
 - El Niño is characterised by an unusual warming of waters in the eastern equatorial Pacific, which has a high correlation with warmer summers in India.
 - The Impacts of El Nino are:
 - O Rains on the western coast of South America
 - Drought in Northern Australia, Indonesia and India. Hence, statement 2 is correct.
 - Storms and Hurricanes in East Pacific
- La-Nina episode represents periods of below average sea-surface temperature across the east central Equatorial Pacific.
 - Global climate La Nina impacts tend to be opposite those of El Nino impacts. In the tropics, ocean temperature variations in La Nina also tend to be opposite those of El Nino. Hence, statement 3 is not correct.

78. Ans: B

Exp:

• From the map given above, it can be seen that Myanmar shares land borders with Thailand, Laos, China, India and Bangladesh.

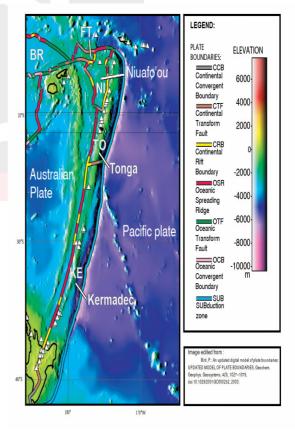


Hence, option B is correct.

79. Ans: A

Exp:

 A recent study reveals that during the Hunga Tonga-Hunga Ha'apai volcano eruption in January 2022, ejected rock and ash rapidly collapsed into the ocean, forming a high-speed and destructive underwater debris flow.



- The Hunga Tonga-Hunga Ha'apai volcano is a submarine volcano in the South Pacific Ocean. It's located 40 miles north of Tongatapu, Tonga's main island.
- The volcano is part of the Kermadec-Tonga subduction zone, where the Pacific Plate is pushed under the Indo-Australian Plate, forming a long chain of volcanoes and islands.
- Hence, option A is correct.

80. Ans: A

Exp:

Indian Ocean Dipole (IOD):

- The Indian Ocean Dipole (IOD) is defined by the difference in sea surface temperature between two areas (or poles, hence a dipole) – a western pole in the Arabian Sea (western Indian Ocean) and an eastern pole in the eastern Indian Ocean south of Indonesia.
- The IOD affects the climate of Australia and other countries that surround the Indian Ocean Basin, and is a significant contributor to rainfall variability in this region.
- Hence, option A is correct.

81. Ans: B

Exp:

- Crown shyness is a phenomenon common in temperate deciduous forests, where the tops of some trees do not touch each other, creating gaps of sky between them.
 - It is observed in many species of trees, such as black mangroves, camphor, and Japanese larch.
 - Scientists have different hypotheses to explain why crown shyness happens, such as reducing competition for light, preventing disease transmission, or avoiding physical damage from wind.
 - Crown shyness creates intricate patterns and enhances light penetration in the forest.



• Hence, option B is correct.

82. Ans: D

Exp:

National Disaster Relief Fund (NDRF) and State Disaster Response Fund (SDRF):

- NDRF:
 - The NDRF is mentioned in the 2005 Disaster Management Act.
 - The NDRF supplements SDRF of a State, in case of a disaster of severe nature, provided adequate funds are not available in SDRF.
 - The NDRF is funded by the Central Government through budgetary provisions or any other sources as decided by the Finance Commission. Hence, statement 1 is correct.
- SDRF:
 - The SDRF is constituted under Disaster Management Act, 2005.
 - SDRFs exist for the states and are the primary funds available to state governments for responses to notified disasters.
 - The Central Government contributes 75% to the SDRF in general states and 90% in northeastern and Himalayan states. Hence, statement 2 is correct.
 - The SDRF is to be used only for meeting the expenditure for providing immediate relief to the victims of notified calamities like Cyclones, Droughts, Earthquakes, Fires, Floods, Tsunamis, hailstorms, landslides, avalanches, cloud bursts, pest attacks and frost/cold waves.q
 - According to a publication of the National Disaster Management Authority from November 2019, "The state government is primarily responsible for undertaking rescue, relief and rehabilitation measures in the event of a disaster." But these can be supplemented with Central assistance.
 - SDRF is administered by the State Executive Committee (SEC), which is headed by the Chief Secretary of the state. Hence, statement 3 is correct.

83. Ans: A

Exp:

 The West Coast Refinery Project is a trilateral project involving ARAMCO(oil company of Saudi Arabia), ADNOC(oil company of the United Arab Emirates) and Indian Companies.

- - A joint task force was established to expedite the West Coast Refinery Project.
 - The task force will work on channeling the promised USD 100 billion investment from Saudi Arabia for this project.
 - The West Coast refinery project is India's first and largest greenfield refinery.
 - Hence, option A is correct.

84. Ans: C

Exp:

Western Disturbance:

- Western Disturbances are a series of cyclonic storms that originate in the Mediterranean region, travel over 9,000 km to bring winter rains to northwest India. Hence, statement 1 is correct.
 - A Western Disturbance collects moisture from the Mediterranean Sea, Black Sea, and Caspian Sea and traverses over Iran and Afghanistan before hitting the western Himalayas.
- While the storm systems occur throughout the year, they travel to India mostly between December and April because the trajectory of the subtropical westerly jet stream, which transports them, shifts during the winter months to the rim of the Himalayas. Hence, statement 3 is correct.
 - For the rest of the year, the jet stream travels from above the Himalayas to the Tibetan Plateau and China. Its trajectory changes as per the position of the Sun. Hence, statement 2 is correct.

85. Ans: C

Exp:

- Magma is the term for the molten or semi-molten rock that exists under the surface of the Earth. Magma can erupt from volcanoes as lava.
- Basic magma, also known as basaltic magma, has a relatively low viscosity compared to other types of magma. It is rich in ferromagnesian minerals but poor in silica. Hence, statement 1 is correct.
 - These magmas have the ability to travel long distances and give rise to the formation of expansive shield volcanoes with gently sloping profiles, often covering extensive geographical areas. Hence, statement 2 is correct.
 - These magmas are often associated with midocean ridges, where they create vast shield volcanoes that stretch along the ocean floor.
 Hence, statement 3 is correct.

86. Ans: C

Exp:

 Inactive or extinct volcanoes are those that have not erupted in recent geological history and are not expected to erupt again in the foreseeable future. One common feature associated with these volcanoes is the filling of their craters with water, forming lakes.

- This occurs because over time, rainwater accumulates in the crater, creating a body of water. Such volcanic crater lakes can often be found in areas that were once active volcanic zones but have since become dormant or extinct.
- A well-known example of a volcanic crater lake is Crater Lake in Oregon, US, which was formed inside the caldera of Mount Mazama, a volcano that became extinct after a cataclysmic eruption thousands of years ago.
- Hence, option C is correct.

87. Ans: A

Exp:

- Status of Phosphorus in India:
 - India is the world's largest importer of phosphorus, primarily sourcing it from West African deposits contaminated with cadmium. Hence, statement 1 is correct.
 - According to Indian Minerals Yearbook 2018, in case of apatite, the country is fully dependent upon imports, while the Rock Phosphate production is only from two states namely, Rajasthan and Madhya Pradesh. Hence, statement 2 is not correct.

Phosphorus Overuse:

 Excessive fertilizer application leads to phosphorus runoff into water bodies. Excessive phosphorus promotes algal blooms, depleting oxygen in water bodies and causing fish deaths. Hence, statement 3 is not correct.

88. Ans: A

Exp:

 Joshimath is a hilly town located on the Rishikesh-Badrinath National Highway (NH-7) in Chamoli district of Uttarakhand

• Hence, statement 1 is not correct.

- The town is traversed by running streams with a high gradient from Vishnuprayag, a confluence of the Dhauliganga and the Alaknanda rivers.
 - Hence, statement 2 is not correct.

 It is home to one of the four cardinal 'Maths' or monasteries established by Adi Shankara - Sringeri in Karnataka, Dwarka in Gujarat, Puri in Odisha and Joshimath near Badrinath in Uttarakhand. Hence, statement 3 is correct.

89. Ans: D

Exp:

Indo-Pacific Region:

- The Indo-Pacific region is one of the most populous and economically active regions of the world which includes four continents: Asia, Africa, Australia and America.
 - The dynamism and vitality of the region is selfevident, 60% of the world's population and 2/3rd of the global economic output makes this region a global economic centre.

Hence, statement 1 is not correct.

 In its geographical dimension, America considers the area from the shores of Africa to the shores of America. Hence, statement 2 is not correct.

90. Ans: C

Exp:

- According to the Central Water Commission (CWC), the live storage in the 150 reservoirs was 113.417 billion cubic metres (BCM) as of 31st August, 2023, which was 63% of their total live storage capacity.
 - This was about 23% less than the storage during the same period in 2022 and about 10% less than the average of the last 10 years.
- The water levels in the reservoirs varied across different regions and river basins. The southern region, which had a rainfall deficiency of 60% in August, had the lowest storage level of 49% of its combined capacity. Some of the river basins that had highly deficient or deficient water levels were:
 - Highly Deficient:
 - Pennar basin in Karnataka and Andhra Pradesh. Hence, Pair 2 is correctly matched.
 - Mahanadi basin in Chhattisgarh and Odisha
 - Deficient:
 - Subarnarekha, Brahmani and Vaitarni basins in Jharkhand, West Bengal and Odisha. Hence, Pair 1 is correctly matched.
 - O Kaveri basin in Karnataka and Tamil Nadu
 - Mahi basin in western India
 - Krishna basin in Maharashtra, Karnataka and Telangana. Hence, Pair 3 is correctly matched.
- All three pairs are correctly matched. Therefore, option C is correct.

91. Ans: C

Exp:

- The Black Sea Grain initiative endeavors to tackle escalating food prices emanating from supply chain disruptions because of Russian actions in the world's 'breadbasket'.
- The deal brokered by the United Nations (UN) and Turkey, was signed in Istanbul in July, 2022.
- The Initiative specifically allows for commercial food and fertilizer (including ammonia) exports from three key Ukrainian ports in the Black Sea – Odesa, Chornomorsk, Yuzhny/Pivdennyi. Hence, option (c) is correct.

92. Ans: D

Exp:

- Heat waves are prolonged periods of excessively hot weather that can cause adverse impacts on human health, the environment, and the economy.
- IMD Criteria for Declaring Heat Wave in India:
 - Heat wave is considered if the maximum temperature of a station reaches at least 40°C or more for Plains and at least 30°C or more for Hilly region

Favorable conditions for Heat wave:

- Transportation / Prevalence of hot dry air over a region (There should be a region of warm dry air and appropriate flow pattern for transporting hot air over the region).
- Absence of moisture in the upper atmosphere (As the presence of moisture restricts the temperature rise).
- The sky should be practically cloudless (To allow maximum insulation over the region).
- Large amplitude anti-cyclonic flow over the area.
- Therefore, all statements are correct.
- Heat waves generally develop over Northwest India and spread gradually eastwards & southwards but not westwards (since the prevailing winds during the season are westerly to northwesterly). But on some occasions, heat waves may also develop over any region in situ under the favorable conditions.

93. Ans: B

Exp:

 Indian Navy and Indian Air Force aircraft recently visited Australia's Cocos (Keeling) Islands (CKI) in the Southern Indian Ocean, strengthening strategic reach and interoperability between India and Australia's militaries in the Indian Ocean.

• Hence, option B is correct.



94. Ans: B

Exp:

- Southwest monsoon winds from the Arabian Sea and the Bay of Bengal blow southwest to northeast over the peninsular region due to a pressure gradient between north and south. Hence, statement 1 is correct.
- The moist air from the southwest reaches the Tibetan Plateau, forced to ascend due to the higher elevation of the plateau the air rises, and condenses leading to the formation of clouds and eventually rainfall. Hence, statement 2 is correct.

95. Ans: D

Exp:

Causes of Urban Flooding:

- Encroachments on Drainage Channels: Due to increased land prices and less availability of land new developments have come up in low-lying areas of cities, such as encroachments over lakes, Wetlands and riverbeds.
- Ideally, the natural drains should have been widened to accommodate the higher flows of stormwater.
- But on the contrary, there have been large scale encroachments without widening the natural drains, leading to decrease in the capacity of the natural drains resulting in flooding.
 - Pollution of water bodies: This is the contamination of water sources with harmful substances, such as chemicals, plastics, or sewage. This can reduce the quality and quantity of water available for human use and also affect the aquatic ecosystems.
- Pollution can also clog up the drainage systems and hinder the flow of water.
 - O Uninformed Release of Water from Dams:

Unplanned and sudden release of water from dams and lakes lead to floods in an urban area, without giving the public enough time to respond.

- Example: Chennai Floods 2015 due to release of water from Chembarambakkam Lake.
- The July 2023 flood in Delhi was magnified by 2 lakh cusecs of water discharged from the Hathnikund Barrage into the Yamuna river.
 - Illegal Mining: Illegal mining of river sand and quartzite for use in building construction deplete the natural bed of the rivers and lakes.
- It causes soil erosion and reduces the water retention capacity of the waterbody increasing the speed and scale of water flow.
- Example: Jaisamand Lake- Jodhpur, Cauvery river-Tamil Nadu.
 - All of the given are causes of Urban Flooding. Hence, option D is the Correct answer.

96. Ans: A

- Exp:
 - 'River Devika Rejuvenation Project' was launched under the National River Conservation Plan (NRCP). Hence, statement 1 is correct.
 - Devika River originates from the hilly Suddha Mahadev temple in the Udhampur district of Jammu and Kashmir. Hence, statement 2 is correct.
 - River Devika flows down towards western Punjab (now in Pakistan) where it merges with the Ravi River. Hence, statement 3 is not correct.

97. Ans: C



• Niger is a landlocked country located in West Africa, bordered by Algeria, Libya, Chad, Nigeria, Benin, Burkina Faso, and Mali. **Hence, option C is correct.**

98. Ans: B

Exp:

State of Indian Dams:

- India has 5745 numbers of dams (5334 are completed and 411 are under construction).
- India is ranked third in the world in terms of building large dams. Hence, statement 1 is correct.
- Tehri Dam in Uttarakhand is the highest dam in India built on the Bhagirathi River.
- Hirakud Dam in Odisha built on river Mahanadi is the longest dam in India. Hence, statement 2 is not correct.
- Kallanai Dam in Tamil Nadu is the oldest dam in India. It is built on the Kaveri river and is about 2000 years old.

99. Ans: D

Exp:

- Dry weather combined with strong winds from a passing hurricane played a significant role in fueling the blaze. These conditions, known as "Flash Droughts," involve rapid moisture evaporation from the atmosphere, creating ideal conditions for fire spread. Hence, statement 1 is correct.
- Maui is home to one of the six active Volcanoes of Hawaii. Most of Maui was experiencing severe drought, so the dry land, with dry non-native grasses and vegetation, was ready fuel for fires. The Island of Maui has one active volcano, Haleakala. Hence, statement 2 is correct.
- A report by the Council of Energy, Environment and Water (CEEW) has noted:
- A tenfold increase in forest fires over the past two decades and says more than 62% of Indian states are prone to high-intensity forest fires.
- Andhra Pradesh, Odisha, Maharashtra, Madhya Pradesh, Chhattisgarh, Uttarakhand, Telangana, and the Northeastern states are most prone to forest fires.
- Mizoram has seen the highest incidence of forest fires over the last two decades, and 95% of its districts are forest fire hotspots. Hence, statement 3 is correct.

100. Ans: C

Exp: Option c is correct.

River Cauvery (Kaveri):

 It is known as 'Ponni' in Tamil and is a sacred river of southern India.

- It rises on Brahmagiri Hill of the Western Ghats in southwestern Karnataka state, flows in a southeasterly direction through the states of Karnataka and Tamil Nadu, and descends the Eastern Ghats in a series of great falls and drains into Bay of Bengal through Pondicherry.
- Left Bank Tributary: Arkavathi, Hemavathi, Shimsa, and Harangi.
- Right Bank Tributary: Lakshmantirtha, Suvarnavati, Noyil, Bhavani, Kabini, and Amaravathi.
- The Ranganthittu Bird Sanctuary is located on the Kaveri River. It is a designated Ramsar site that supports many bird species including the painted stork, spotbilled pelican, and black-headed ibis.
- It is among the seven holy rivers of India.

101. Ans: B

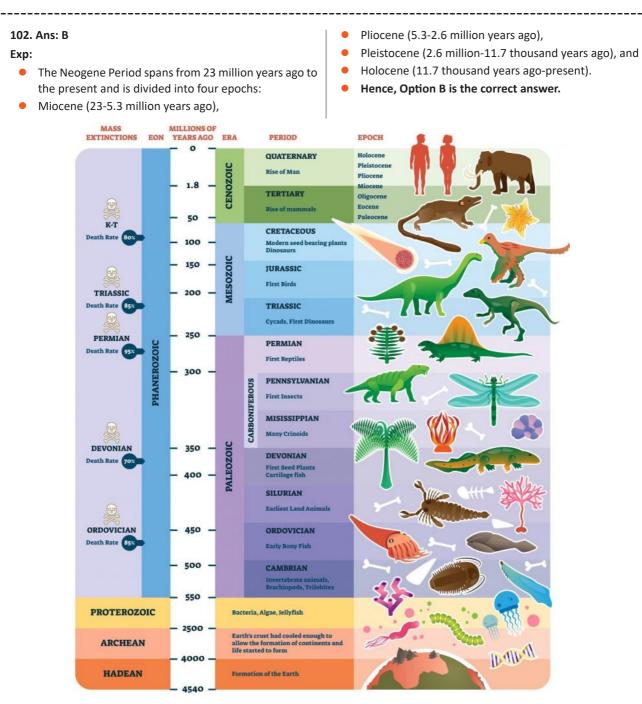
Exp:

Option b is correct:

About Suriname

- It is located on the northeastern coast of South America. It is bordered by the Atlantic Ocean to the north, French Guiana to the east, Brazil to the south, and Guyana to the west.
- The capital city of Suriname is Paramaribo, which is situated on the banks of the Suriname River.
- Suriname is a democratic republic with a president as the head of state and government. The country has a multi-party-political system.





103. Ans: A

Exp:

Umiam Lake

- Umiam Lake is one of the biggest artificial lakes in Meghalaya that is situated about 15 km from Shillong.
- The lake is a reservoir that was created as part of a dam construction project on the Umiam River (also known

as Barapani River).

• Hence, option A is correct.

104. Ans: D

Exp:

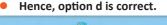
 The North Sea is located in northwest Europe. It is bordered by several countries, including Norway to the east and north, Sweden, Denmark, Germany, the Netherlands and Belgium and the United Kingdom. Hence, option D is correct.

 It is connected to the Atlantic by the Strait of Dover and the English Channel and opens directly onto the ocean between the Orkney and Shetland islands and between the Shetland Islands and Norway.

105. Ans: D

Exp:

- The North Sea lies between Great Britain, Denmark, Norway, Germany, the Netherlands, Belgium and France.
- An epeiric sea on the European continental shelf, it connects to the Atlantic Ocean through the English Channel in the south and the Norwegian Sea in the north.





106. Ans: A

Exp:

- The North Sea Route (NSR) is the shortest shipping route for freight transportation between Europe and countries of the Asia-Pacific region. Hence, statement 1 is correct.
- This route spans across the Arctic Ocean, encompassing the Barents Sea, Kara Sea, Laptev Sea, and East Siberian Sea. Hence, statement 2 is correct.
- It offers potential distance savings of up to 50% compared to traditional routes through the Suez or Panama Canals. Hence, statement 3 is not correct.



xp.

Key Facts about Greece:



- Greece is a country in southern Europe with a long coastline on the Mediterranean Sea. It is bordered by Albania, North Macedonia, Bulgaria, and Turkey. Hence, statement 1 is correct.
- Greece is one of the oldest civilizations in the world and is considered the cradle of Western civilization. It is the birthplace of democracy, philosophy, theater, and the Olympic Games.
- Government: Parliamentary Republic.
- Capital: Athens, National
- Language: Greek
- Currency: Euro
- Major Mountains Ranges: Pindus and the Taurus mountains.
 - Greece's highest mountain is Mount Olympus. Hence, statement 2 is correct.
- River: The longest river in Greece is the river Haliacmon.

108. Ans: C

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Exp:
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Pacific Decadal Oscillation:

- About:
 - The Pacific Decadal Oscillation (PDO) is a longterm ocean fluctuation of the Pacific Ocean. It is a cyclical event that repeats every 20-30 years and just like ENSO, has a 'cool' and 'warm' phase. Hence, statement 1 is correct.
 - Positive (warm) PDO = cooler west Pacific Ocean and warmer eastern side (vice versa for negative PDO).

 The term PDO was coined in about 1996 by Steven Hare.

Impact of PDO:

- On Global Climate: PDO phase can have significant implications for the global climate, affecting Pacific and Atlantic hurricane activity, droughts and flooding around the Pacific basin, the productivity of marine ecosystems, and global land temperature patterns.
- On Cyclones: A warmer (positive-phased) PDO implies fewer equatorial-origin cyclones. Hence, statement 3 is correct.
 - In 2019, the PDO entered a cooler, negative phase and which if continues, could mean more such cyclones in post-monsoon months.

ENSO and PDO:

- ENSO with a positive PDO is generally not good, however, ENSO with a negative PDO brings more rain to India. Hence, statement 2 is correct.
- If both ENSO and the PDO are in the same phase, it is believed that El Niño/La Nina impacts may be magnified.

109. Ans: A

Exp:

- Deendayal Port, also known as Kandla port, is one of the twelve Major Ports in India and is located on the West Coast of India, in the Gulf of Kutch in the State of Gujarat. Hence, statement 1 is not correct.
- There are 12 major ports and 200 non-major ports (minor ports) in the country. All the 12 Major ports are functional. Hence, statement 2 is correct.
- While the Major Ports are under the administrative control of Ministry of Shipping, the non-major ports are under the jurisdiction of respective State Maritime Boards/ State Government. Hence, statement 3 is not correct.

110. Ans: C

- Kenya is located in East Africa.
- Bisected horizontally by the Equator, Kenya is bordered to the north by South Sudan and Ethiopia, to the east by Somalia and the Indian Ocean, to the south by Tanzania, and to the west by Lake Victoria and Uganda.
 Hence, option C is correct.
- Kenya is significant for India in the geopolitics of Western Indian Ocean. It is also an active member of the African Union with whom India has a longestablished connection.





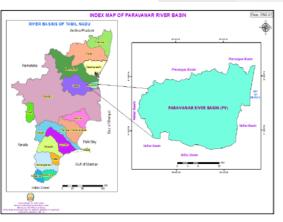
111. Ans: A

Exp:

Diversion of Paravanar River Course:

- Neyveli Lignite Corporation India Limited (NLCIL) has successfully accomplished the permanent diversion of the Paravanar River course to safeguard habitats and agricultural fields from inundation, benefiting local communities and irrigation prospects.
 - NLCIL is a Navratna company Central Public Sector Undertaking under the administrative control of the Ministry of Coal.
- Paravanar River Basin which is a leaf-shaped river basin and the second smallest river basin of Tamil Nadu lies within the Cuddalore District of Tamil Nadu.
- The Paravanar River is not a mature river and is seasonal and ephemeral (lasting or used for only a short period of time).

Hence, option A is correct.



Index map of Paravanar River Basin

112. Ans: D

Exp:

Key Facts About Philippines:

- The Philippines is an archipelago located in Southeast Asia, bordered by the Philippine Sea to the east, the South China Sea to the west, and the Celebes Sea to the south. Hence, statement 1 is correct.
 - It consists of 7,641 islands, with Luzon and Mindanao being the largest.
 - The capital city is Manila, situated on Luzon Island.
 - Mount Apo (2,954 meters) on Mindanao Island is the highest peak, and it is an active volcano. Hence, statement 2 is correct.

• The Philippines has a tropical climate with high temperatures and humidity year-round, experiencing wet and six hours of the rainfall. Hence, both statements are correct.

116. Ans: A

Exp:

• MJO is an eastward moving disturbance of clouds, rainfall, winds, and pressure that traverses the planet in the tropics and returns to its initial starting point. Hence, statement 1 is correct. This propagating disturbance is a center of strong deep convection (active phase), flanked on both sides by regions of weak deep convection ("inactive" or "suppressed phases"). When the cycle of the MJO is shorter, meaning that it completes a full cycle in a shorter period of time, it tends to be associated with better monsoon conditions in India. Hence, statement 2 is not correct.

117. Ans: C

Exp:

- The World Meteorological Organization (WMO) is an intergovernmental organization with a membership of 193 Member States and Territories. Hence, statement 1 is correct.
 - India is a member of WMO. Hence, statement 2 is not correct.
- It originated from the International Meteorological Organization (IMO), which was established after the 1873 Vienna International Meteorological Congress.
- Established by the ratification of the WMO Convention on 23rd March 1950, WMO became the specialized agency of the United Nations for meteorology (weather and climate), operational hydrology and related geophysical sciences.'
- WMO is headquartered in Geneva, Switzerland. Hence, statement 3 is correct.

118. Ans: C

- Land reclamation refers to the process of creating new land by filling, draining, or otherwise altering bodies of water or other low-lying areas. Hence, statement 1 is correct.
- Reclaiming land can be a complicated and involved process, so it isn't normally done without an end goal in mind. However, that end goal can take a huge number of forms including:
- Artificial islands for migratory birds and marine life. Hence, statement 2 is correct.

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- Gas and oil installations
- Housing and infrastructure
- Port construction or extension
- Repairing beaches and islands damaged by extreme weather conditions

119. Ans: B

Exp:

Permafrost:

- Permafrost is essentially any ground that stays frozen — 0 degree Celsius or lower — for at least two years straight. Hence, statement 1 is correct.
- These permanently frozen grounds are often found in Arctic regions such as Greenland, Alaska (the United States), Canada, Russia and Eastern Europe.
- According to the National Aeronautics and Space Administration (NASA), permafrost is composed of "a combination of soil, rocks and sand that are held together by ice. The soil and ice in permafrost stay frozen all year long.
 - However, although the ground remains perennially frozen, permafrost regions aren't always covered with snow. Hence, statement 2 is not correct.

120. Ans: D

Exp:

Chenab River:

- Source: It rises in the upper Himalayas in the Lahaul and Spiti district of Himachal Pradesh state. Hence, statement 1 is correct.
 - The river is formed by the confluence of two rivers, Chandra and Bhaga, at Tandi, 8 km southwest of Keylong, in the Lahaul and Spiti district. Hence, statement 2 is correct.
 - The Bhaga River originates from Surya taal lake, which is situated a few kilometers west of the Bara-lacha la pass in Himachal Pradesh.
 - The Chandra River originates from glaciers east of the same pass (near Chandra Taal).
- Flows Through: It flows through the Jammu region of Jammu and Kashmir into the plains of Punjab, Pakistan, before flowing into the Indus River. Hence, statement 3 is correct.

121. Ans: D

Exp:

• Land subsidence refers to the gradual sinking or settling of the Earth's surface, usually due to the compaction of underground layers of soil, rock, or other materials. Hence, statement 1 is correct. According to the data gathered for years by the Central Ground Water Board (CGWB), excessive groundwater extraction is identified as the underlying cause of land subsidence incidents in the Joshimath, Uttarakhand and the plains of Punjab, Haryana, Delhi, and Faridabad.
 Hence, statement 2 is correct.

 Using data from the Sentinel-1 satellite shows that the National Capital Region (NCR) sank an average of 15 mm per year from 2011-2017. Urbanization and unplanned growth exacerbated groundwater withdrawal and contributed to subsidence in the NCR. Hence, statement 3 is correct.

122. Ans: C

Exp:

- A glacier is a large, perennial accumulation of crystalline ice, snow, rock, sediment, and water that originates on land and moves down slope under the influence of its own weight and gravity. They are sensitive indicators of changing climate. Hence, statement 1 is correct.
- Drumlins are smooth oval shaped ridge-like features composed mainly of glacial till with some masses of gravel and sand. The long axes of drumlins are parallel to the direction of ice movement. Hence, statement 2 is correct.

123. Ans: C

Exp:

Heatwaves:

- As per the Indian Meteorological Department (IMD) criteria, heat wave need not be considered till the maximum temperature of a station reaches at least 40°C for Plains and at-least 30°C for Hilly regions.
 Hence, statement 2 is correct.
- If the normal maximum temperature of a station is less than or equal to 40°C, then an increase of 5°C to 6°C from the normal temperature is considered to be heat wave condition. Hence, statement 2 is correct.
 - Further, an increase of 7°C or more from the normal temperature is considered a severe heat wave condition.
- If the normal maximum temperature of a station is more than 40°C, then an increase of 4°C to 5°C from the normal temperature is considered to be heat wave condition. Further, an increase of 6°C or more is considered a severe heat wave condition.
 - Additionally, if the actual maximum temperature remains 45°C or more irrespective of normal maximum temperature, a heat wave is declared.

124. Ans: D

Exp:

- Ranking as the second-largest tributary on the southern (right bank) of the Ganges, the Son River follows the Yamuna River in size. Hence, statement 1 is correct.
- The Son River meanders through four states, including Chhattisgarh, Madhya Pradesh, Uttar Pradesh, and Bihar. Hence, statement 2 is correct.
- Beginning its journey near Amarkantak Hill in the Gaurela-Pendra-Marwahi district of Chhattisgarh, the Son River eventually converges with the Ganges River near Patna in Bihar. Hence, statement 3 is correct.

125. Ans: D

Exp:

- A gorge is a deep valley with very steep to straight sides. Gorges form in hard rocks. Indus Gorge is in Ladakh district of Jammu and Kashmir. Hence, pair 1 is correct.
- Canyons formed where rainfall is very low. Bryce Canyon is in the US. Hence, pair 2 is correct.
- Niagara Falls is in Canada. Hence, pair 3 is correct.

126. Ans: C

Exp:

- Overturning circulation is a global network of ocean currents that gradually mixes with surrounding water masses, exchanging heat, carbon, and nutrients. Eventually, the upwelling of this modified water occurs in other regions, completing the overturning circulation. Hence, statement 1 is correct.
- Overturning circulation plays a crucial role in maintaining climate stability on Earth. It facilitates the transport of heat, carbon, and nutrients, influencing the planet's climate system. Hence, statement 3 is correct.
- Melting Antarctic ice disrupts the formation of Antarctic bottom water, making surface waters fresher and less dense, impeding their sinking. This disruption weakens the overturning circulation, further diminishing the oxygen supply to the deep ocean. Hence, statement 4 is not correct.
- The sinking of dense water drives the deeper limb of the overturning circulation. It flows towards the equator, while at the same time, warmer surface water from lower latitudes moves towards the poles. **Hence**, statement 2 is correct.

127. Ans: C

Exp:

Coffee:

- Cultivation and Biodiversity:
 - Coffee Plantation Practices in India:
 - Predominantly grown under thick natural shade.
 - Ecologically sensitive regions of the Western and Eastern Ghats. Hence, statement 1 is correct.
 - Biodiversity Hotspots:
 - Coffee plantations located in these regions are recognized as biodiversity hotspots.
 - Contribute significantly to India's unique biodiversity.
 - Export and Domestic Consumption:
 - Approximately 65% to 70% of the coffee produced in India is exported and remaining coffee is consumed domestically.
 - Role in Sustainability and Socio-economic Development:
 - Coffee cultivation plays a vital role in sustaining biodiversity.
 - Fosters socio-economic development in remote hilly areas.
- Geographical Distribution and Varieties:
 - Coffee Plantation Locations in India:
 - Karnataka, Kerala, Tamil Nadu, Andhra Pradesh (Araku Valley), Odisha, Manipur, Mizoram, and Other northeastern states.
 - Major Coffee Producer:
 - Karnataka accounts for approximately 70% of India's total coffee production. Hence, statement 2 is not correct.
 - Coffee Varieties in India:
 - Arabica and Robusta. Hence, statement 3 is correct.
- Characteristics of Arabica:
 - Grown at higher altitudes and it has Higher market value due to its aroma.
- Characteristics of Robusta:
 - Known for its strength and used in various blends.

128. Ans: A

Exp:

Eretmoptera murphyi is a tiny flightless Midge (small insect).

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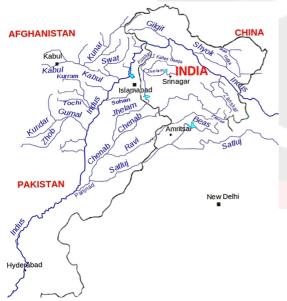
- British Antarctic Survey (BAS) observed that Eretmoptera murphyi is changing the soil composition of Antarctica's Signy Island. Hence, statement 1 is correct.
- Eretmoptera Murphyi is an invasive species on Antarctic Signy Island. Hence, statement 2 is not correct.
- It is a native of South Georgia, a sub-Antarctic Island, and was accidentally introduced to Signy in the 1960s during a botany experiment.

129. Ans: C

Exp:

Kiru Hydro-electric Power Project:

- An investigation into alleged corruption in the Kiru hydro-electric power project in Jammu and Kashmir (J&K) has led the Central Investigation Bureau (CBI) to search Delhi and Rajasthan locations.
- The Kiru Hydro Electric Project is proposed on River Chenab, located in Kishtwar district of J&K. The project is envisaged as a Run of River Scheme. Hence, statement 1 is not correct.



- Run-of-river hydro projects use the natural downward flow of rivers and micro turbine generators to capture the kinetic energy carried by water. Hence, statement 2 is correct.
- Chenab River rises in the upper Himalayas in the Lahaul and Spiti districts of Himachal Pradesh state. The river is formed by the confluence of two rivers, Chandra and Bhaga, at Tandi, Himachal Pradesh. It flows through the Jammu region of J&K into the plains of Punjab,

Pakistan, before flowing into the Indus River.

Some of the important projects/dams on Chenab are Ratle Hydro Electric Project, Salal Dam- the hydroelectric power project, Dul Hasti Hydroelectric Plant, and Pakal Dul Dam (under construction). Hence, statement 3 is not correct.

130. Ans: B

Exp:

- The India State of Forest Report (ISFR) 2021 published by the Forest Survey of India (FSI) classifies 100% of Goa's Forest cover as "less fire prone". Hence, statement 1st is not correct.
- Mizoram has seen the highest incidence of forest fires over the last two decades, and 95% of its districts are forest fire hotspots. Hence, statement 2nd is correct.
- Forest Fire Prevention and Management Scheme (FFPM): FFPM is implemented by the Forest Survey of India (FSI) under the MoEF&CC. Hence, statement 3rd is correct.
 - It aims to strengthen the forest fire management system by utilizing advanced technologies such as remote sensing.
 - It is the only government-sponsored programme dedicated to assisting states in dealing with forest fires.

131. Ans: A

- 38th parallel, a popular name given to latitude 38° N that in East Asia roughly demarcates North Korea and South Korea. Hence, statement 1 is correct.
- The line was chosen by U.S. military planners at the Potsdam Conference (July 1945) near the end of World War II.



• While the Yalta Conference was held earlier in 1945 and focused on the reorganisation of Europe after the war. Hence, statement 2 is not correct.

132. Ans: B

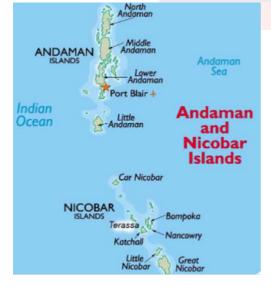
Exp:

- Vembanad Lake is the largest lake in Kerala and the longest Lake in India. It is separated from the Arabian Sea by a narrow barrier island and is a popular backwater stretch in Kerala.
- In 2002, it was included in the list of wetlands of international importance, as defined by the Ramsar Convention.
 - It is the second-largest Ramsar site in India only after the Sundarbans in West Bengal. Hence, statement 1 is not correct.
- The lake has its source in four rivers, Meenachil, Achankovil, Pampa and Manimala. Hence, statement 2 is correct.

133. Ans: A

Exp:

- The Andaman and Nicobar Islands are a group of islands at the southeastern edge of the Bay of Bengal.
- They are part of the union territory of India and are situated approximately 1,400 km from the Indian mainland.
 - NITI Aayog has proposed a development project for Great Nicobar that includes the construction of an international container transshipment terminal, an airport, a power plant, and a township.
- Top-to-bottom Arrangement of Islands:



Therefore, option A is correct.

134. Ans: A

Exp:

- Disasters linked to hydropower projects in the Himalayan region have increased in recent years, causing loss of life and property making it a risk for hydrogen power projects. Hence, statement 1 is correct.
- The Phata Byung Hydroelectric Project is a run-off river project located on the cascade of the Mandakini River, a major tributary of the Alakananda River in Uttarakhand, Hence, statement 2 is not correct.

135. Ans: A

Exp:

- Subansiri, or "Gold River" is the largest tributary of the Upper Brahmaputra river. It originates from the Tibetan Himalayas and makes its way to India via (Miri Hills) Arunachal Pradesh. Hence, statement 1 is correct.
- Subansiri Lower Hydroelectric project is the biggest hydroelectric project undertaken in India so far and is a run of river scheme on river Subansiri.
- A run-of-river dam is one in which the flow of water in the river downstream of the dam is the same as the flow of water upstream of the dam.
- Gravity dam is constructed from concrete or cement (unlike mud and masonry stones used in embankments). It is designed to hold back water by primarily utilising the weight of the material alone to resist the horizontal pressure of water pushing against it. Hence, statement 2 is not correct.

136. Ans: B

Exp:

Important Passes of India

Pass	Link/Features
Banihal Pass	Kashmir Valley with the outer Himalaya and the plains to the south.
Bara-Lacha-La Pass	Lahaul district in Himachal Pradesh with Leh district in Ladakh.
Fotu La Pass	Leh with Kargil of Ladakh. Hence, pair 1 is not correctly matched.
Rohtang Pass	Kullu Valley with the Lahaul and Spiti Valleys of Himachal Pradesh. Hence, pair 2 is correctly matched.

Shipki La Pass	Kinnaur district of Himachal Pradesh with Autonomous Region of Tibet, China. Hence, pair 3 is correctly matched.
Jelep La Pass	Sikkim with Autonomous Region of Tibet, China. Hence, pair 4 is not correctly matched.
Lipu Lekh Pass	Chaudans valley of India with Autonomous Region of Tibet, China. It is located close to the tri junction of Uttarakhand (India), China and Nepal.
Khardung La	Ladakh with Siachen glacier. It is the highest motorable pass in the world.
Bom di La	It is in Arunachal Pradesh

137. Ans: A

Exp:

- Small Island Developing States (SIDS) are a group of island nations that are characterised by their small size, isolation, and vulnerability to natural disasters.
- The SIDS were recognized as a distinct group of developing countries in June 1992, at the UN Conference on Environment and Development. Hence, statement 1 is correct.
- SIDS are not located only in the Pacific Ocean. In fact, SIDS are located in three different oceanic regions: the Atlantic, Indian, and Pacific oceans. Hence, statement 2 is not correct.

138. Ans: B

Exp:

 The year 2022 witnessed record-breaking tourism in the Northeast Region having over 11.8 million domestic visitors and over 100,000 international travelers. Some of the top tourist destinations are as follows:

Arunachal Pradesh:

- Tawang Monastery: One of the oldest and largest Buddhist monasteries in India.
- Namdapha National Park: Home to diverse flora and fauna, including tigers, flying squirrel and leopards. Hence, pair 1 is correctly matched.
- Assam:
 - Kamakhya Temple: A revered Hindu temple dedicated to the goddess Kamakhya. Hence, pair 2 is not correctly matched.
 - Kaziranga National Park: A UNESCO World Heritage site and home to the one-horned rhinoceros.

 Majuli Island: Located in the Brahmaputra River, is the largest river island in the world and a cultural hub in Northeast India.

• Meghalaya:

- Nohkalikai Falls: The tallest plunge waterfall in India. Hence, pair 3 is not correctly matched.
- Living Root Bridges: A unique natural wonder created by the Khasi and Jaintia tribes.

Nagaland:

- Hornbill Festival: The festival is named after the hornbill bird, which is revered by the Naga tribes as a symbol of their folklore and tradition.
- Dzukou Valley: A picturesque valley known for its stunning landscapes and diverse flora and fauna. Treeless but unbelievably green and floral. Hence, pair 4 is correctly matched.

139. Ans: C

Exp:

Kurmi Community

- About:
 - Kurmis are a landowning farming community whose status varies from place to place. Hence, statement 1 is correct.
 - Kurmis are referred to as "progressive farmers" who "avail of maximum benefits of all the development schemes available in the area and region.
 - Kurmis are distributed across several states Uttar Pradesh, Bihar, Odisha, Maharashtra, Gujarat, Chhattisgarh, Madhya Pradesh, West Bengal, Jharkhand, Goa, and Karnataka.

Caste Status:

- In most states, Kurmis belong to the OBC in both the central and state lists for reservations.
- In Gujarat, Patels, who are linked to Kurmis, are in the general category, and have been demanding OBC status.
- In West Bengal, Odisha, and Jharkhand where Kurmi is written as 'Kudmi' — Kurmis want to be included among Scheduled Tribes.

Kurmali Language:

- Kurmali language is a language spoken by the Kurmi community, primarily in the Indian states of Bihar, Jharkhand, and Odisha.
- The Kurmali language is a member of the Indo-Aryan language family and belongs to the Bihari language family. It shares some similarities with Maithili and Magahi. It has its own script called "Kurmi Kudali" which is a modified version of the Devanagari script. Hence, statement 2 is correct.

140. Ans: C

Exp:

- The ocean floor is the bottom of the ocean that covers more than 70% of the Earth's surface. It has different features and depths depending on the location and the movement of tectonic plates.
- Continental Shelf:
 - The shallowest and widest part of the ocean floor. Hence, statement 1 is correct.
 - Extends from the coast to the edge of the continent, where it drops sharply into the continental slope.
 - Rich in marine life and resources, such as fish, oil, and gas.
- Continental Slope:
 - The steep slope that connects the continental shelf to the abyssal plain.
 - Home to some deep-sea creatures, such as octopuses, squids, and anglerfish. Hence, statement 2 is correct.

141. Ans: A



 Arunachal Pradesh, Nagaland, Manipur and Mizoram shares border with Myanmar. Hence, option (a) is correct

142. Ans: D

- Exp:
 - The golden triangle area comprises Thailand, Myanmar, Vietnam and Laos. Hence, statement 1 is not correct.
 - The golden crescent area includes Pakistan, Afghanistan and Iran. Hence, statement 2 is not correct.

 India is sandwiched between two largest Opium producing regions of the world that is the Golden triangle on one side and the Golden crescent on other.



143. Ans: C

Exp:

Characteristics of the Hakki Pikki Tribe:

- About:
 - The Hakki Pikki tribe is a semi-nomadic tribe traditionally engaged in bird catching and hunting, living in forest areas in west and south India. Hence, statement 1 is correct.
 - It is a Scheduled Tribe in Karnataka and their origin is said to be an ancestral relation with the legendary Ranapratap Singh. Hence, statements 3 and 4 are correct.

Society:

- The usual age of marriage among the tribe is 18 for women and 22 for men, and cross-cousin marriages are preferred.
 - The society is matriarchal, and Monogamy is the norm. Hence, statement 2 is not correct.

144. Ans: C

Exp:

Zero Shadow Day:

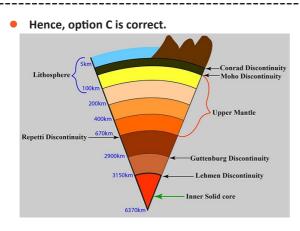
- Zero shadow day refers to the day when the sun is directly overhead and there is no shadow cast by vertical objects such as buildings, poles, or trees. Hence, statement 1 is correct.
- This phenomenon occurs twice a year in places located between the Tropic of Cancer and the Tropic of Capricorn, which are the latitudes where the sun's rays are perpendicular to the Earth's surface. Hence, statement 2 is correct.

145. Ans: C

Exp:

• The Mohorovicic Discontinuity, or "Moho," is the boundary between the crust and the mantle. All the other mentioned discontinuities lie below the Mantle.





146. Ans: C

Exp:

Significance of Zoji La Pass:

- Zoji La is a high mountain pass located in the Kargil district of Ladakh. Hence, statement 1 is correct.
- The pass links Leh and Srinagar and provides an important link between Union Territories of Ladakh and Kashmir.
- Zoji La pass remains closed during winters due to heavy snowfall, cutting off Ladakh region from Kashmir.
- In 2018, the Zoji La tunnel project was launched. The tunnel is Asia's longest and strategic bi-directional

tunnel, which will provide all-weather connectivity between Srinagar, Kargil and Leh. Hence, statement 2 is correct.

147. Ans: B

Exp:

Gulf of Mannar:

- It is an inlet of the Indian Ocean, between southeastern India and western Sri Lanka. Hence, statement 1 is not correct.
- It is bounded to the northeast by Rameswaram (island), Adam's (Rama's) Bridge (a chain of shoals), and Mannar Island. Hence, statement 2 is correct.
- It receives several rivers, including the Tambraparni (India) and the Aruvi (Sri Lanka).
- The gulf is noted for its pearl banks and sacred chank (a gastropod mollusk). Hence, statement 3 is correct.
- Gulf of Mannar Marine National Park:
- The Marine National Park was established in 1982 under the provisions of the Wildlife (Protection) Act, 1972. Total area of the National park is about 162.89 km2.
- Major ecosystem types available are coral reefs, mangroves, mudflats, creeks, seagrass, & seaweeds, estuaries, sandy strands to saline grasslands, marshy areas and rocky shores.



148. Ans: C Exp: **River Gandak:** About: The river Gandak, is also known as the Gandaki and Narayani River in Nepal. It is a significant river 150. Ans: B that flows through the northern part of India and Exp: Nepal. Hence, statement 1 is correct. About: Valmiki National Park and Tiger Reserve in Bihar is located on the banks of this river. Source: The river Gandak originates at an altitude of 7620 m above main sea level in the north of Dhaulagisi in Tibet near Nepal border. Originating from the Himalayas, the river stretches over a length of 630 kilometers, with 445 kilometers running through India and 185 kilometers in Nepal. **Drainage Basin:** The Gandak River has a total drainage basin area of 29,705 square kilometers. The river flows through the Indian states of Bihar and Uttar Pradesh, and joins the Ganges near Patna just downstream of Hajipur. **Tributaries:** • The major tributaries of the Gandak River include the Mayangadi, Bari, Trisuli, Panchand, Sarhad, Budhi Gandak. Hence, statement 2 is correct. 149. Ans: B 151. Ans: A Exp: Exp: • About: The Vernal Equinox is an astronomical event that occurs twice a year when the Sun is exactly above the equator, and day and night are approximately equal in length all over the world. O In the Northern Hemisphere, the Vernal Equinox marks the beginning of spring, while in the Southern Hemisphere, it marks the beginning of autumn. The Vernal Equinox occurs on or around March 20 or 21 every year and is caused by the Earth's tilted axis and its orbit around the Sun. The Earth's axis is tilted at an angle of about 23.5 degrees relative to the plane of its orbit around the Sun. As the Earth moves in its orbit, different parts of the 152. Ans: D planet receive different amounts of sunlight, causing the changing of the seasons. Exp: It is important to note that the Summer Solstice is a different astronomical event that occurs around

June 20 or 21 every year. During the Summer Solstice, the Northern Hemisphere is tilted towards the Sun, resulting in the longest day of the year and the official beginning of summer in the Northern Hemisphere. Hence, option B is correct.

- - Atmospheric rivers are relatively long, narrow regions in the atmosphere – like rivers in the sky - that transport most of the water vapor outside of the tropics.
 - One well-known atmospheric river called the "Pineapple Express" picks up warm, moist air near Hawaii. Hence, statement 2 is correct.
 - When the Pineapple Express hits land in the Western United States and Canada, it can cause heavy rain and snow. In California, it can cause up to 5 inches of rain in a day.
 - Atmospheric rivers typically occur in the extratropical North Pacific/Atlantic, southeastern Pacific, and South Atlantic oceans often making landfall on the west coasts of North and South America. Other regions that experience atmospheric river landfalls include Greenland, Antarctica, and the south-central United States. Hence, statement 1 is not correct.

- Earth Hour is a worldwide movement organized to encourage individuals, communities and businesses to turn off non-essential electric lights for one hour, on the last Sunday of March. Hence, statement 1 is correct.
- Earth Hour Day 2023 is celebrated on March 25. And the official theme for this year's celebration is "Invest in Our Planet". Hence, statement 2 is correct.
- The government of India does not offer incentives to businesses or organizations that participate in Earth Hour by reducing their energy consumption. However, the government has implemented several other initiatives to promote sustainable practices and reduce greenhouse gas emissions. Hence, statement 3 is not correct.

Western Disturbances are a series of cyclonic storms that originate in the Mediterranean region, travel over

9,000 km to bring winter rains to northwest India. Hence, statement 1 is correct.

- A Western Disturbance collects moisture from the Mediterranean Sea, Black Sea, and Caspian Sea and traverses over Iran and Afghanistan before hitting the western Himalayas.
- While the storm systems occur throughout the year, they travel to India mostly between December and April because the trajectory of the subtropical westerly jet stream, which transports them, shifts during the winter months to the rim of the Himalayas.
- For the rest of the year, the jet stream travels from above the Himalayas to the Tibetan Plateau and China. Its trajectory changes as per the position of the Sun.
- Western Disturbances (WD) are the primary source of snowfall that replenishes the Himalayan glaciers during winter. Hence, statement 2 is correct.
 - These glaciers feed major Himalayan rivers like the Ganga, Indus and Yamuna as well as myriad mountain springs and rivulets.
- The absence of Western Disturbances caused the north Indian plains to experience severe cold waves and cold days in December 2022 and most of January 2023 due to the cold northern winds flowing down from the Himalayas. Hence, statement 3 is correct.

153. Ans: C

Exp:

Aravali Mountain Range:

- About:
- The Aravallis, is one of the oldest fold mountains on Earth. Hence, statement 1 is correct.
 - It spans over 800km from Gujarat to Delhi (through Rajasthan and Haryana).
- The highest peak in the Aravalli Range is Guru Peak on Mount Abu. Hence, statement 2 is correct.
- Impact on Climate:
 - The Aravallis have an impact upon the climate of northwest India and beyond.
 - During monsoons, the mountain range gently guides the monsoon clouds eastwards towards Shimla and Nainital, thus helping nurture the sub-Himalayan rivers and feeding the north Indian plains.
 - In the winter months, it protects the fertile alluvial river valleys (the para-Indus and Gangetic) from the assault of cold westerly winds from Central Asia.

154. Ans: C Exp:

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About:

- The Great Rift Valley is a massive geological formation that stretches around 6,400 kilometers from northern Syria to central Mozambique in East Africa. Hence, statement 1 is correct.
- The valley is home to the Jordan River, which flows through the Jordan Valley and eventually empties into the Dead Sea on the border between Israel and Jordan. Hence, statement 2 is not correct.
 - The Gulf of Aden is an eastward continuation of the Rift, and from there it extends southeastward as part of the mid-oceanic ridge of the Indian Ocean.
- In eastern Africa, the valley divides into the Eastern Rift and the Western Rift. The Western Rift, also known as the Albertine Rift, contains some of the deepest lakes in the world. Hence, statement 3 is correct.

155. Ans: B

Exp:

- Firnification is a natural process that occurs in regions with seasonal snowfall, such as high-altitude areas and polar regions.
- It is the process by which snow is compressed and transformed into granular ice called firn.
 - Firn is a transitional stage between snow and glacier ice.
- Firn is not a type of sedimentary rock formed from compacted snow. Also, firnification does not occur when ice melts and refreezes repeatedly.
 - Firnification can occur in any region with seasonal snowfall, not just in polar regions. However, polar regions are particularly conducive to firnification because of their low temperatures and the accumulation of snow over many years.

• Hence, option B is correct.

156. Ans: B

- About Khondalite Stones:
 - Khondalite is a type of metamorphic rock that is found in the Eastern Ghats region of India, particularly in the state of Odisha. It is named after the Khondalite Group of rocks, which is believed to have formed around 1.6 billion years ago during the Proterozoic era. Hence, statement 1 is not correct.

- Khondalite is primarily composed of feldspar, quartz, and mica, and has a distinct pinkish-grey colouration. It is commonly used as a decorative stone in construction and is particularly prized for its durability and resistance to weathering. Hence, statement 2 is correct.
- Khondalite stones were widely used in ancient temple complexes. They are proposed to be used widely to maintain the aesthetic value of some projects such as heritage security zone, Jagannath Ballav pilgrim centre, etc.