

IASBABA'S DAILY CURRENT AFFAIRS QUIZ COMPILATION UPSC 2022

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Q.1) 'Gongadi Shawl' recently seen in news is an ancient woolcraft of

- a) Telangana
- b) Jammu and Kashmir
- c) Chhattisgarh
- d) Rajasthan

Q.1) Solution (a)

Gongadi Shawl is a traditional woolen shawl woven by the indigenous Kuruma and Kuruba communities of Telangana. The wool of the indigenous Deccan sheep locally known as Nalla Gorre is used in its manufacture. It is manufactured organically without using natural or synthetic colors. The tough gongadi usually lasts for more than a decade and acquires this unique quality from the craft of hand weaving. One of the unique natures of gongadi is that it does not fade but grows darker in time.

Context - Recently, Telangana's woollen gongadi shawls has been refashioned into shoes for farmers by alumni of the National Institute of Design, Ahmedabad.

Q.2) With reference to 'Shanghai Cooperation Organisation', consider the following statements

- 1. It is the world's largest regional organization in terms of geographic scope and population
- 2. The official working languages of SCO are Chinese and English
- 3. The Council of Heads of State is the top decision-making body in the SCO

How many of the statements given above are correct?

- a) Only one
- b) Only two
- c) All three
- d) None

Q.2) Solution (b)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Correct	Incorrect	Correct
The Shanghai Cooperation Organisation (SCO) is a	The official	The Council of Heads of State is
Eurasian political, economic, international security	languages of the	the top decision-making body
and defence organization. It is the world's largest	SCO are Chinese	in the SCO. This council meets
regional organization in terms of geographic scope	and Russian.	at the SCO summits, which are
and population, covering approximately 60% of the		held each year in one of the
		member states' capital cities.

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area of Eurasia, 40% of the world population. Its	
combined GDP is around 20% of global GDP.	

Context - Recently, the Ministry of External Affairs announced that India will host the annual summit of the Shanghai Cooperation Organisation (SCO) in the virtual format on July 4, 2023.

Q.3) Consider the following statements with respect to 'Barents Sea'

- 1. It is located between the coasts of Norway and Denmark
- 2. It is a shallow sea with high levels of salinity

Choose the correct statement(s)

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

Q.3) Solution (b)

Statement Analysis:

Statement 1	Statement 2
Incorrect	Correct
Barents sea is a marginal sea of the Arctic	It is a shallow sea, with an average depth of 230 metres.
Ocean. It is located along the northern coasts	The sea's deepest point is 600 m at the Bear Island
of Norway and Russia and divided between	Trench. The Barents Sea faces a subarctic climate. The
Norwegian and Russian territorial waters.	waters of the Barents Sea have a high salinity of 34 parts
	per 1,000.

Context - Underwater volcano erupting with mud, fluids from Earth's interior was discovered recently in Barents Sea

Q.4) With reference to 'Purana Qila', consider the following statements

- 1. The construction of the structure started in the reign of Sher Shah Suri and was completed by Akbar
- 2. The architecture of the fort is a happy blend of Hindu and Muslim styles of architecture
- 3. It is one of the oldest forts in Agra and built on the banks of river Yamuna

How many of the statements given above are correct?

- a) Only one
- b) Only two

- c) All three
- d) None

Q.4) Solution (a)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Incorrect	Correct	Incorrect
Purana Qila is one of the oldest	An amazing feature of the Purana Qila	Purana Qila is located
and ancient forts in Delhi, India.	are the three gates that are a display of	on the South Eastern
However, the exact time period of	a happy blend of Hindu and Muslim	part of the present city
foundation of the original structure	styles of architecture. – Bara Darwaza or	of New Delhi. It is one
is in antiquity and is unknown,	the Big Gate facing west, the Humayun	of the oldest forts in
though it was re-built under the	Gate facing south, and the Talaqqi Gate,	Delhi and built on the
reign of the second Mughal	which is often referred to as the	banks of river Yamuna.
Emperor Humayun and Sur	forbidden gate. All of the gates are	
Emperor Sher Shah Suri.	double-storeyed and comprise of huge	
	semi-circular bastions flanking either of	
	their sides.	

Context - A recent round of excavations at the site of Delhi's Purana Qila or Old Fort has uncovered evidence of the continuous history of the city since the pre-Mauryan era.

Q.5) Consider the following statements about 'Babool tree'

- 1. It is a perennial, evergreen tree which is indigenous to Mexico
- 2. It requires a lot of water for its growth and hence cannot be used for combating desertification

Select the correct statement(s)

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

Q.5) Solution (d)

Statement Analysis:

Statement 1	Statement 2
Incorrect	Incorrect
Babool or gum Arabic (Acacia nilotica) is a perennial,	Babool helps in the reclamation of degraded
evergreen tree which is indigenous to Indian Sub-	areas by fixing nitrogen and acting as a
continent as well as in Tropical Africa, Burma, Sri Lanka,	windbreak. Planting babool trees benefits
Saudi Arabia, Egypt and West and East Sudan. It occurs in	biodiversity and helps combat
tropical and subtropical regions of India.	desertification

Context - A study by researchers from Thailand and India suggests that babool seed oil could be an environment-friendly alternative to chemicals to control major farm pests

Q.6) Consider the following statements about 'GOBARdhan Scheme'

Statement 1 - It adopts a whole-of-government approach and aims to convert waste into wealth thereby promoting a circular economy

Statement 2 - The scheme aims to generate wealth and energy by converting cattle dung, agricultural residue, and other organic waste into Biogas, CBG and bio-fertlizers

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

Q.6) Solution (a)

Statement Analysis:

Statement 1	Statement 2
Correct	Correct
Galvanizing Organic Bio-Agro Resources Dhan,	The government launched the Gobardhan scheme in
is a crucial umbrella initiative of the	2018 as a national priority project under the Swachh
Government of India. It adopts a whole-of-	Bharat Mission Grameen-Phase II program. It aims to
government approach and aims to convert	generate wealth and energy by converting cattle dung,
waste into wealth, thereby promoting a	agricultural residue, and other organic waste into
circular economy.	Biogas, CBG and bio-fertilizers.

Context - Union Minister for Jal Shakti has launched the Unified Registration Portal for GOBARdhan recently

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Q.7) Consider the following statements with respect to 'National Electricity Plan'

- 1. It has been notified by The Central Electricity Authority (CEA)
- 2. The share of renewable based energy of the total installed capacity of will exceed conventional energy by 2026-27
- 3. The average emission factor is expected to reduce over the next ten years

How many of the statement(s) given above is/are correct

- a) Only one
- b) Only two
- c) Only three
- d) None

Q.7) Solution (c)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Correct	Correct	Correct
As per section 3(4) of the	Based on generation planning studies	The average emission
Electricity Act, 2003, Central	carried out under the purview of	factor is expected to
Electricity Authority has been	preparation of National Electricity Plan for	reduce to 0.548 kg
mandated to prepare a	the period of 2022-27, the likely Installed	CO2/kWhnet in the year
National Electricity Plan (NEP)	Capacity for the year 2026-27 is 609,591	2026-27 and to 0.430 kg
in accordance with the	MW comprising of 273,038 MW of	CO2/kWhnet by the end
National Electricity Policy and	Conventional capacity (Coal-235,133MW,	of 2031-32.
notify such plan once in five	Gas-24,824MW, Nuclear-13,080MW) and	
years.	336,553 MW of Renewable based Capacity	
	(Large Hydro-52,446 MW, Solar-185,566	
	MW Wind-72,895 MW, Small Hydro-5,200	
	MW, Biomass-13,000MW, Pump Storage	
	Plants (PSP projects) -7446MW) along with	
	BESS capacity (Battery Energy Storage	
	System) of 8,680MW/34,720 MWh.	

Context - Central Electricity Authority notifies the National Electricity Plan for the period of 2022-32

Q.8) With reference to 'Yakshagana', consider the following statements

- 1. It is believed to have evolved from pre-classical music during the period of the Bhakti movement
- 2. It is a traditional theatre form of Karnataka

Select the correct statement(s)

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

Q.8) Solution (c)

Statement Analysis:

Statement 1	Statement 2
Correct	Correct
It is believed to have evolved from pre-classical	Yakshagana is a traditional theatre, developed in
music and theatre during the period of the	Dakshina Kannada, Udupi, Uttara Kannada, Shimoga
Bhakti movement. Its stories are drawn from	and western parts of Chikmagalur districts, in the state
Ramayana, Mahabharata, Bhagavata and other	of Karnataka and in Kasaragod district in Kerala that
epics from both Hindu and Jain and other	combines dance, music, dialogue, costume, make-up,
ancient Indic traditions.	and stage techniques with a unique style and form

Context - It is curtains down on the six-month-long daily performances by professional Yakshagana troupes in Karnataka.

Q.9) With reference to 'National Startup Awards 2023', consider the following statements

- 1. It is given by the Department for Promotion of Industry and Internal Trade under The Ministry of Skill Development and Entrepreneurship
- 2. The winners and finalists will be provided with handholding support across focus areas such as mentorship, investor connect and procurement support among others
- 3. Any startup incubated in the last five years is eligible to apply for the award

How many statement(s) given above is/are correct

- a) Only one
- b) Only two
- c) All three
- d) None

Q.9) Solution (a)

Statement analysis:

Statement 1	Statement 2	Statement 3
Incorrect	Correct	Incorrect

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It is given by the
Department for
Promotion of
Industry and Internal
Trade under The
Ministry of
Commerce and
Industry

A cash prize of INR 10 lakhs will be awarded to one winning startup in each of the categories by DPIIT. Every edition of the National Startup Awards provides the winners and finalists with curated handholding support, which is across focus areas such as mentorship, investor connect, corporate connect, government pilot and procurement support among others. The startups will also be given priority for participation in various national and international startup events where DPIIT is participating.

The startup should be a DPIIT recognized startup. The entity must submit its certificate of recognition. The entity must submit the Certificate of Incorporation issued by the Ministry of Corporate Affairs or Certificate of Registration from the Registrar of Firms of respective state. The entity must have a hardware or software product or a process solution that is present in the market.

Context - The Department for Promotion of Industry and Internal Trade (DPIIT) extended the deadline for submission of applications for the National Startup Awards 2023 to June 15, 2023.

Q.10) Which of the following statements regarding 'Higgs Boson' is incorrect

- a) It has a mass higher than that of proton
- b) It is the only elementary particle with a spin
- c) It is sometimes referred to as the "God particle"
- d) It is a "force carrier" particle that comes into play when particles interact with each other

Q.10) Solution (b)

- It is one of the 17 elementary particles that make up the Standard Model of particle physics, which is scientists' best theory about the behaviors of the universe's most basic building blocks. Higgs boson plays such a fundamental role in subatomic physics that it is sometimes referred to as the "God particle
- The Higgs boson has a mass of 125 billion electron volts meaning it is 130 times more massive than a proton, according to CERN.
- The Higgs Boson is the only elementary particle with no spin.
- It is a "force carrier" particle that comes into play when particles interact with each other, with a boson exchanged during this interaction.

Context - Scientists at CERN found the first evidence of the rare process by which the Higgs boson decays into a Z boson and a photon.

Q.11) Consider the following statements with respect to 'Petroleum Coke (Pet Coke)'

1. It is a final carbon-rich solid material and residual waste material extracted from oil refining

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- 2. It emits toxic gases like carbon dioxide, nitrous oxide, mercury, arsenic and chromium on burning
- 3. It is low in calorific value and easy to transport and store

How many of the statement(s) given above are correct

- a) Only one
- b) Only two
- c) All three
- d) None

Q.11) Solution (b)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Correct	Correct	Incorrect
It is a final carbon-rich solid material and	It releases toxic gases like carbon	It is high in calorific
residual waste material extracted from oil	dioxide, nitrous oxide, mercury,	value and easy to
refining. It is a spongy, solid residue from oil	arsenic, chromium, nickel, and	transport and store.
distillation that can be burned for fuel similar	hydrogen chloride after burning.	
to coal.		

Context - The Union government of India permitted the import of pet coke for making graphite anode material for lithium-ion batteries.

Q.12) Consider the following statements with respect to 'Kavach System'

- 1. It is an indigenously developed Automatic Train Protection (ATP) system developed by the Research Design and Standards Organisation
- 2. It is a set of electronic devices and Radio Frequency Identification devices installed in locomotives as well the tracks which communicate through ultra-high radio frequencies
- 3. The system can alert the loco pilot, take control of the brakes and bring the train to a halt automatically when it notices another train on the same line

How many of the statement(s) given above are correct

- a) Only one
- b) Only two
- c) Only three
- d) None

Q.12) Solution (c)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Correct	Correct	Correct
Kavach System is an indigenously	It is a set of electronic devices	The system can alert the loco
developed Automatic Train	and Radio Frequency	pilot, take control of the brakes
Protection (ATP) system. Kavach	Identification devices installed in	and bring the train to a halt
was developed by the Research	locomotives, in the signalling	automatically when it notices
Design and Standards	system as well the tracks, that	another train on the same line
Organisation (RDSO) under Indian	talk to each other using ultra-	within a prescribed distance. The
Railway (IR) in collaboration with	high radio frequencies to control	device also continuously relays
Medha Servo Drives Pvt Ltd, HBL	the brakes of trains and also	the signals ahead to the
Power Systems Ltd and Kernex	alert drivers, all based on the	locomotive, making it useful for
Microsystems.	logic programmed into them.	loco pilots in low visibility.

Context – It was in news due to the recent train accident in Odisha

Q.13) With reference to 'Seaweeds', consider the following statements

Statement 1 - Seaweeds are generally anchored to the sea bottom or other solid structures by rootlike "holdfasts"

Statement 2 - Substances found in seaweed help increase the production of a protein that metabolises fat effectively

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

Q.13) Solution (b)

Statement Analysis:

Statement 1	Statement 2
Correct	Correct
Seaweeds are generally anchored to the sea	Animal studies have found that substances found in
bottom or other solid structures by rootlike	seaweed help increase the production of a protein that
"holdfasts," which perform the sole function	metabolises fat effectively. Both the statements are

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of attachment and do not extract nutrients as	independent of each other. Hence, statement 2 is not
do the roots of higher plants.	the correct explanation of statement 1

Context - Clusters of brown Sargassum seaweed reported to be infested by flesh-eating bacteria were recently found awash in Florida.

Q.14) Consider the following statements about 'Myristica swamps'

- 1. These swamps are found in the evergreen forest patches and are included in the littoral and swamp forest groups
- 2. These unique habitats is found only in Western Ghats region of India

Select the correct statement(s)

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

Q.14) Solution (a)

Statement Analysis:

Statement 1	Statement 2
Correct	Incorrect
Myristica swamps are found in the Sacred Groves or evergreen	In India, these unique habitats are
forest patches and are included in the littoral and swamp forest	found in the Western Ghats and a
groups. These forests are characterized by trees with large	smaller distribution exists in the
protruding roots jutting out of waterlogged soil which remains	Andaman and Nicobar Islands.
inundated throughout the year.	

Context - Found in the sacred groves of Kerala, the Myristica swamps support a unique biodiversity but are threatened by climate change and human intervention

Q.15) Which of the following statements regarding 'Sal trees' is incorrect

- a) It is a large evergreen tree which is seldom completely leafless
- b) It requires well-drained, moist and sandy loam soil
- c) It is indigenous to India and occurs in two main regions separated by Gangetic plain
- d) The resin of this tree can be used in the indigenous system of medicine

Q.15) Solution (a)

- It is a large sub-deciduous tree which is seldom completely leafless.
- It requires well-drained, moist and sandy loam soil. It survives upto a maximum temperature of 36°C to 44°C and minimum temperature of 11°C to 17°C and it needs an average rainfall of 1000 mm to 3500 mm per annum.
- It is indigenous to India and occurs in two main regions separated by Gangetic plain namely the northern and central Indian regions.
- The resin of this tree is used in the indigenous system of medicine.

Context - Government-owned Tribal Development Co-operative Corporation of Odisha Ltd (TDCCOL) decided to procure sal seeds (Shorea robusta) from nine Odisha districts.

Q.16) Consider the following statements with respect to 'Varunastra'

- 1. It is ship launched thermally-propelled anti-submarine torpedo capable of targeting quiet submarines
- 2. The torpedo's guidance system uses active-passive acoustic homing and GPS/NavIC satellite guidance
- 3. It was designed and manufactured by Naval Science and Technological Laboratory (NSTL) under the Defence Research and Development Organisation (DRDO)

How many of the statement(s) given above are correct

- a) Only one
- b) Only two
- c) All three
- d) None

Q.16) Solution (a)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Incorrect	Correct	Incorrect
Varunastra is a ship launched,	The torpedo's guidance system uses	It was designed and developed
heavy weight, electrically-	active-passive acoustic homing, wire	by Vizag-based Naval Science
propelled anti-submarine	guidance, and GPS/NavIC satellite	and Technological Laboratory
torpedo capable of targeting	guidance. Weighing around 1.5	(NSTL) under the Defence
quiet submarines, both in	tonnes, it can carry a 250 kg (550 lb)	Research and Development
deep and shallow waters in	high-explosive warhead and has a	Organisation (DRDO) and is
an intense counter-measures	maximum operating depth of 600	manufactured by Bharat
environment.	metres (2,000 ft). It has long range	Dynamics Ltd (BDL).
	with multi manoeuvring capabilities.	

Context - Indigenously designed and developed heavy-weight torpedo (HWT) Varunastra was recently successfully test-fired with a live warhead against an undersea target by the Indian Navy.

Q.17) With reference to 'Homo Naledi', consider the following statements

Statement 1 - Homo naledi shared some similarities with humans, like walking upright and manipulating objects by hand

Statement 2 - Homo naledi appears to have lived near the same time as early ancestors of modern humans

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

Q.17) Solution (a)

Statement Analysis:

Statement 1	Statement 2	
Correct	Correct	
Homo naledi shared some similarities with humans,	Homo naledi appears to have lived near the same	
like walking upright and manipulating objects by	time as early ancestors of modern humans. Both	
hand, but members of the species had smaller	the statements are independent of each other.	
heads, a shorter stature, and were thinner and	Hence, statement 2 is the correct explanation of	
more powerfully built.	statement 1	

Context - Palaeoanthropologists have uncovered evidence that suggests that Homo naledi, an extinct human species that lived hundreds of thousands of years ago, may have buried their dead and carved meaningful symbols in a cave.

Q.18) UNESCO's Michel Batisse Award is given in the field of

- a) Heritage sites conservation
- b) Biosphere reserve management
- c) Anti-poaching initiatives
- d) Renewable energy adoption

Q.18) Solution (b)

The award is given every two years during the MAB council in memory of Dr Michel Batisse for outstanding achievement in the management of biosphere reserves in line with the recommendations of the Seville Strategy.

Context - An IFS officer Jagdish S Bakan won the prestigious Michel Batisse award 2023 for biosphere reserve management from UNESCO.

Q.19) Consider the following statements about 'Price Support Scheme (PSS)'

- 1. There is no procurement ceiling for tur, urad and masur under Price Support Scheme (PSS) operations for 2023-24
- 2. State Governments can also appoint state agencies to undertake PSS operations
- 3. The duration of PSS operations for a particular crop and season shall be for a maximum period of 90 days

How many of the statement(s) given above are correct

- a) Only one
- b) Only two
- c) All three
- d) None

Q.19) Solution (c)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Correct	Correct	Correct
In a significant step	Besides, announcement of	The DAC shall be responsible to decide the
towards enhancing	MSP, the Government also	duration of the scheme, crop-wise, state-
domestic production of	organizes procurement	wise, depending upon the
pulses, the government	operations of these	seasonality/climatic/geographical/ locational
has removed the	agricultural commodities	advantages and disadvantages. The duration
procurement ceilings of	through various public and	of PSS operations for a particular crop and
40% for tur, urad and	cooperative agencies such	season shall be for a maximum period of 90
masur under Price	as Food Corporation of India	days
Support Scheme (PSS)	(FCI), National Agricultural	
operations for 2023-24.	Cooperative Marketing	
The decision, in effect,	Federation of India Ltd.	
assures the procurement	(NAFED), National	
of these pulses from	Consumer Cooperative	
	Federation of India Ltd.	

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farmers at MSP without	(NCCF), and Small Farmers	
ceilings.	Agro Consortium (SFAC).	
	Besides, State Governments	
	also appoint state agencies	
	to undertake PSS	
	operations.	

Context - Government removed the ceiling for procurement of Tur, Urad and Masur under Price Support Scheme (PSS) for 2023-24

Q.20) Consider the following statements about 'Securities Appellate Tribunal (SAT)'

- 1. It is a statutory body established under the provisions of the Administrative Tribunals Act of 1985
- 2. It hears and disposes of appeals against orders passed by the Pension Fund Regulatory and Development Authority (PFRDA)

Select the correct statement(s)

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

Q.20) Solution (b)

Statement Analysis:

Statement 1	Statement 2
Incorrect	Correct
Securities appellate tribunal is a statutory body	It hears and disposes of appeals against
established under the provisions of the Securities and	orders passed by the Securities and Exchange
Exchange Board of India Act, 1992. The presiding officer	Board of India, the Pension Fund Regulatory
and other members of the Board are elected by the	and Development Authority (PFRDA) and the
selection committee by the Prime Minister of India.	Insurance Regulatory Development Authority
Jurisdiction of Securities Appellate Tribunal extends to	of India (IRDAI).
companies situated across India.	

Context - The Tribunal was in news recently

Q.21) Consider the following statements with respect to 'Antardrishti dashboard'

1. It provides the necessary knowledge to evaluate the development of financial inclusion by recording relevant data

- 2. It will assess the degree of financial exclusion at a local level across the nation so that such places may be addressed
- 3. It was launched by Reserve Bank of India

How many of the statement(s) given above are correct

- a) Only one
- b) Only two
- c) All three
- d) None

Q.21) Solution (c)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Correct	Correct	Correct
Antardrishti dashboard provides the	It will also make it possible to assess	It was launched
necessary knowledge to evaluate and track	the degree of financial exclusion at a	by Reserve Bank
the development of financial inclusion by	local level across the nation so that	of India
recording relevant data.	such places may be addressed.	

Context - The Reserve Bank of India Governor launched a financial inclusion dashboard named 'Antardrishti'

Q.22) Consider the following parameters

- 1. Human Resources
- 2. Training & Capacity Building
- 3. Consumer Empowerment
- 4. Packaging and Disposal

How many of the above mentioned parameters does Food Safety Index take into account?

- a) Only two
- b) Only three
- c) All four
- d) None

Q.22) Solution (b)

Food Safety Index is based on the performance of the State/ UT on five significant parameters, namely, Human Resources and Institutional Data, Compliance, Food Testing – Infrastructure and Surveillance,

Training & Capacity Building and Consumer Empowerment. Packaging and Disposal is not a parameter. The Index is a dynamic quantitative and qualitative benchmarking model that provides an objective framework for evaluating food safety across all States/UTs. The Index is an annual assessment released by the Food Safety and Standards Authority of India (FSSAI).

Context - Union Health Minister released the fifth State Food Safety Index recently

Q.23) Consider the following statements about 'Mission on Advanced and High-Impact Research (MAHIR)'

- The mission aims to develop emerging technologies in the power sector indigenously for deployment outside India
- 2. The mission will not receive funding from any budgetary resources
- 3. Geo-thermal energy and solid state refrigeration are some of the areas identified for research

How many of the statement(s) given above are correct

- a) Only one
- b) Only two
- c) All three
- d) None

Q.23) Solution (b)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Correct	Incorrect	Correct
MAHIR aims to quickly	The Mission will be funded by	The following eight areas are identified
identify emerging	pooling financial resources of the	for research: Alternatives to Lithium-
technologies in the	Ministry of Power, Ministry of New	Ion storage batteries Modifying electric
power sector and	and Renewable Energy and the	cookers / pans to suit Indian cooking
develop them	Central Public Sector Enterprises	methods Green hydrogen for mobility
indigenously, at scale, for	under the two Ministries.	(High Efficiency Fuel Cell) Carbon
deployment within and	Additional funding will be	capture Geo-thermal energy Solid state
outside India.	mobilized from the Government of	refrigeration. Nano technology for EV
	India's budgetary resources.	battery Indigenous CRGO technology

Context - Mission on Advanced and High-Impact Research (MAHIR) launched to leverage Emerging Technologies in Power Sector

Q.24) Consider the following statements about 'Commission of Railway Safety (CRS)'

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- 1. It is an executive body which carries out inspectorial, investigatory and advisory functions related to railway safety
- 2. It operates under the administrative control of the Ministry of Railways

Select the correct statement(s)

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

Q.24) Solution (d)

Statement Analysis:

Statement 1	Statement 2
Incorrect	Incorrect
Commissioner of Railway Safety (CRS) is a	The CRS is headquartered in Lucknow, Uttar Pradesh, and
government body responsible for railway	operates under the administrative control of the Ministry of
safety oversight and carries out	Civil Aviation (MoCA). It is, however, worth noting that the
inspectorial, investigatory, and advisory	CRS does not report to the Ministry of Railways of the
functions as mandated by the Railways	Railway Board. The reason or principle behind this, put
Act, 1989.	simply, is to keep the CRS insulated from the influence of
	the country's railway establishment and prevent conflicts of
	interest.

Context - Investigation into the recent tragic train accident in Odisha, the deadliest train crash in India in over two decades, is being conducted by the Commissioner of Railway Safety for the south-eastern circle

Q.25) 'Kilauea Volcano' which erupted recently is located in

- a) Philippines
- b) Indonesia
- c) New Zealand
- d) Hawaii

Q.25) Solution (d)

Kilauea Volcano is the youngest and most active Hawaiian shield volcano, located on the southern part of the Island of Hawai'i, known as Big Island. It is near-constantly erupting from vents either on its summit (caldera) or on the rift zones.

Context - The Kilauea volcano on Hawaii's Big Island erupted recently, according to an advisory from the U.S. Geological Survey (USGS).

Q.26) Consider the following statements with respect to 'National Training Conclave'

- 1. The Conclave aims to foster collaboration among civil servants from different states and at all levels
- 2. The Conclave is being hosted by the Civil Services Board as part of Mission Karmayogi

Select the correct statement(s)

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

Q.26) Solution (d)

Statement Analysis:

Statement 1	Statement 2
Incorrect	Incorrect
The Conclave aims to foster collaboration among civil services	The Conclave is being hosted by the
training institutes and strengthen the training infrastructure	Capacity Building Commission. The
for civil servants across the country. The Conclave is being	conclave is part of the National
hosted by the Capacity Building Commission. Civil Servants	Programme for Civil Services Capacity
from the Central government departments, State	Building (NPCSCB) - 'Mission
governments, and local governments, as well as experts from	Karmayogi'.
the private sector, will take part in the deliberations.	

Context - Prime Minister will inaugurate the first National Training Conclave at the International Exhibition and Convention Centre Pragati Maidan, New Delhi.

Q.27) Consider the following statements with respect to 'Central Electricity Regulatory Commission (CERC)'

- 1. It is a statutory body functioning with quasi-judicial status under the Energy Act 2003
- 2. It was established to regulate the tariff of any generating company which has a composite scheme for power generation
- 3. The CERC is also responsible for development of the power market in India

How many of the statement(s) given above are correct

a) Only one

- b) Only two
- c) All three
- d) None

Q.27) Solution (b)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Incorrect	Correct	Correct
CERC is a key regulator of the	CERC was instituted primarily to	In accordance with the
power sector in India, is a	regulate the tariff of Power	Electricity Act 2003, the CERC
statutory body functioning with	Generating companies owned or	is also responsible for
quasi-judicial status under the	controlled by the government of	development of the power
Electricity Act 2003. It was initially	India, and any other generating	market in India for efficient,
constituted in 1998 under the	company which has a composite	transparent and competitive
Ministry of Power's Electricity	scheme for power generation and	price discovery through power
Regulatory Commissions Act, 1998	interstate transmission of energy	exchanges.

Context - The Ministry of Power has asked the Central Electricity Regulatory Authority (CERC) to initiate the process of coupling multiple power exchanges.

Q.28) With reference to 'Dimethyl Ether (DME)', consider the following statements

- 1. It is a synthetically produced alternative to diesel for use in specially designed compression ignition engines
- 2. The DME-fuelled engine does not emit any particulate or soot matter and almost no smoke
- 3. DME has a very high cetane number which is measure of the fuel's ignitibility in compression ignition engines

How many of the statement(s) given above are correct

- a) Only one
- b) Only two
- c) All three
- d) None

Q.28) Solution (b)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Correct	Incorrect	Correct
Dimethyl Ether is a synthetically	The DME-fuelled engine	Dimethyl Ether has a very
produced alternative to diesel for use	emitted extremely low	high cetane number, which is
in specially designed compression	particulate and soot emissions	a measure of the fuel's
ignition diesel engines. It can be a	and almost no smoke without	ignitibility in compression
viable alternative fuel and engine	using expensive exhaust gas	ignition engines. Under
technology to adapt to conventional	after-treatment devices and	normal atmospheric
diesel engines used in India's	advanced engine technologies.	conditions, DME is a
economy's agricultural and transport		colorless gas.
sectors.		

Context - Researchers at IIT Kanpur developed a 100% DME-fuelled engine with a mechanical fuel injection system.

Q.29) 'Operation Amanat' which was launched recently is related to

- a) Retrieval of valuable articles
- b) Rescue and Rehabilitation
- c) Disabled friendly stations
- d) Operational safety

Q.29) Solution (a)

Under the Operation Amanat initiative, the Railway Protection Force has taken a novel initiative to make it easier for the passengers to get back their lost luggage. It helps to track lost belongings of passengers. The details of lost luggage along with photos are uploaded by RPF personnel of the respective Divisions.

Context – The operation was conducted recently.

Q.30) Consider the following statements with respect to 'Bagh Print'

- 1. It is a wooden hand-block print which is believed to have started around Indus Valley times
- 2. Bagh print motifs are typically geometric, paisley, or floral compositions design

Select the correct statement(s)

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

Q.30) Solution (c)

Statement Analysis:

Statement 1	Statement 2
Correct	Correct
Bagh print is a traditional Indian handicraft	The process is characterised by hand printed wood
originating in Bagh, Dhar district of Madhya	block relief prints with naturally sourced pigments
Pradesh, India. The wooden hand-block print is	and dyes. Bagh print motifs are typically geometric,
believed to be some 1,000 years old, originating	paisley, or floral compositions design, dyed with
around the Indus Valley through the Khatri	vegetable colours of red and black over a white
community, who later settled in Madhya	background, and is a popular textile printing
Pradesh's Dhar district.	product.

Context - Women learn to make Bagh print bags under 'Safe Tourist Places project'

Q.31) Consider the following bodies

- 1. Comptroller and Auditor General
- 2. Committee on Public Undertakings
- 3. Finance Commission
- 4. Public Affairs Committe

How many of the body(ies) mentioned above is/are Supreme Audit Institutions

- a) Only one
- b) Only two
- c) Only three
- d) None

Q.31) Solution (a)

Supreme Audit Institutions (SAIs) are public oversight institutions which audit a government's use of public funds. They are a critical link in a country's accountability chain. The Comptroller and Auditor General (CAG) of India is India's SAI. SAIs undertakes financial audits of organizations' accounting procedures and financial statements, and compliance audits reviewing the legality of transactions made by the audited body.

Context - Comptroller and Auditor General (CAG) of India recently said that Supreme Audit Institutions (SAIs) must inevitably prepare themselves for auditing AI-based governance systems and look for opportunities to adopt AI into their audit techniques.

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Q.32) 'Hiroshima AI Process (HAP)' was recently initiated by

- a) European Union
- b) Chip 4 Alliance
- c) Financial Action Task Force
- d) G7

Q.32) Solution (d)

Hiroshima AI Process (HAP) is an effort by the G7 bloc to determine a way forward to regulate artificial intelligence (AI). It also encourages international organisations such as the OECD to consider the analysis of the impact of policy developments and the Global Partnership on AI (GPAI) to conduct practical projects.

Context - Hiroshima Al Process (HAP) was initiated in the annual Group of Seven (G7) Summit the G7 Hiroshima Leaders' Communiqué

Q.33) Consider the following statements with respect to 'United Nations Office on Drugs and Crime (UNODC)'

- 1. It is a member of the United Nations Sustainable Development Group
- 2. It works directly with Governments and non-governmental organizations
- 3. UNODC relies on UN General Assembly for its funds
- 4. United Nations Convention against Transnational Organized Crime comes under the operational work of UNODC

How many of the statement(s) given above are correct

- a) Only two
- b) Only three
- c) All four
- d) None

Q.33) Solution (b)

Statement Analysis:

Statement 1	Statement 2	Statement 3	Statement 4
Correct	Correct	Incorrect	Correct
UNODC is a United Nations office	By working	UNODC relies on	The United Nations
that was established in 1997 as	directly with	voluntary	Convention against
the Office for Drug Control and	Governments and	contributions,	Transnational Organized
Crime Prevention by combining	non-governmental	mainly from	Crime, adopted by

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the United Nations International	organizations,	governments, to	General Assembly
Drug Control Program (UNDCP)	UNODC field staff	carry out the	resolution 55/25 of 15
and the Crime Prevention and	develop and	majority of our	November 2000, is the
Criminal Justice Division in the	implement drug	work.	main international
United Nations Office at Vienna,	control and crime		instrument in the fight
adopting the current name in	prevention		against transnational
2002. The agency is a member of	programmes		organized crime. It falls
the United Nations Sustainable	tailored to		under the operational
Development Group.	countries'		work of UNODC.
	particular needs.		

Context - Dubai Customs recently celebrated the graduation of participants from the United Nations Office on Drugs and Crime (UNODC) programme.

Q.34) Consider the following statements regarding 'Gravitational Lensing'

- 1. It occurs when a massive celestial body causes a sufficient curvature of spacetime for the path of light around it to be bent
- 2. It causes magnification, allowing us to observe objects that would otherwise be too far away and too faint to be seen

Select the correct statement(s)

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

Q.34) Solution (c)

Statement Analysis:

Statement 1	Statement 2
Correct	Correct
Gravitational Lensing occurs when a massive	An important consequence of this lensing distortion is
celestial body, such as a galaxy cluster, causes	magnification, allowing us to observe objects that
a sufficient curvature of spacetime for the	would otherwise be too far away and too faint to be
path of light around it to be visibly bent, as if	seen. As light travels through spacetime, the theory
by a lens. The body causing the light to curve	predicts that the path taken by the light will also be
is accordingly called a gravitational lens.	curved by an object's mass. Gravitational lensing is a
	dramatic and observable example of Einstein's theory
	in action.

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Context - Astronomers have recently captured four images of the same background supernova being gravitationally lensed by the immense gravitational well of the foreground supernova.

Q.35) With reference to 'Sea Lettuce', consider the following statements

- 1. It is usually found growing on rocky shores of seas and oceans around the world
- 2. Large masses of sea lettuce are often an indicator of uncontaminated water
- 3. It can accumulate heavy metals and grows throughout the year

How many of the statement(s) given above are correct

- a) Only one
- b) Only two
- c) All three
- d) None

Q.35) Solution (b)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Correct	Incorrect	Correct
Sea lettuce (Ulva lactuca) is	Large masses of	Some species of Sea lettuce also grow in
commonly referred to as	sea lettuce are	brackish water rich in organic matter or sewage
seaweed. It is a genus of green	often an indicator	and can accumulate heavy metals. It needs a lot
algae usually found growing on	of nutrient	of sunlight to flourish. It is perennial, and grows
rocky shores of seas and oceans	pollution in the	all year, although the largest blooms occur
around the world.	water.	during the summer.

Context - Researchers have recently discovered 20 new species of Sea lettuce along the Baltic and Scandinavian coasts.

Q.36) Consider the following statements with respect to 'Golden jackal'

- 1. They can stay nocturnal in places where humans inhabit
- 2. They are abundant in valleys and along rivers and their tributaries
- 3. They are classified as 'Least Concern' according to the IUCN Red List

How many of the statement(s) given above are correct

- a) Only one
- b) Only two
- c) All three

d) None

Q.36) Solution (c)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Correct	Correct	Correct
Golden jackals stay nocturnal if	They are quite widespread across India.	They are classified as
they live in an area that humans	Right from the Himalayan foothills, down	'Least Concern'
inhabit. They remain under rocks	to the Western Ghats, the Golden Jackal	according to the IUCN
for shelter during the day and	has a wide distribution. They are	Red List. It falls under
come out at night. However, in	abundant in valleys and along rivers and	Schedule II of the
other areas, they may be partly	their tributaries, canals, lakes, and	Wildlife Protection Act,
diurnal, meaning they are active	seashores, but are rare in foothills and	1972.
during the day.	low mountains.	

Context – The species was in news.

Q.37) 'National Time Release Study (NTRS) 2023 report' was released recently by

- a) Ministry of Statistics and Programme Implementation
- b) NITI Aayog
- c) Central Board of Indirect Taxes
- d) Geological Survey of India

Q.37) Solution (c)

Central Board of Indirect Taxes and Customs (CBIC) along with other Members of the Board released the National Time Release Study (NTRS) 2023 report. Time Release Study (TRS) as a performance measurement tool aims to present quantitative measure of the cargo release time, defined as the time taken from arrival of the cargo at the Customs station to its out of charge for domestic clearance in case of imports and arrival of the cargo at the Customs station to the eventual departure of the carrier in case of exports.

Context - CBIC released National Time Release Study (NTRS) 2023 report

Q.38) Consider the following statements

- 1. Statement 1 Government of India joined the worldwide celebrations of 15th June as Global Wind Day
- 2. Statement 2 Wind energy is crucial to India's efforts to achieve its goal of having 40% of its electric power installed capacity from non-fossil fuel-based energy resources

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

Q.38) Solution (c)

Statement Analysis:

Statement 1	Statement 2
Correct	Incorrect
The Ministry of New and Renewable Energy,	India has made great strides in the generation of
Government of India joined the worldwide	wind energy over the years, and it now ranks
celebrations of 15th June as Global Wind Day,	fourth in wind power capacity in the world. Wind
through the organization of a day-long event in	energy is crucial to India's efforts to achieve its
New Delhi today, 15th June, 2023. Held with an	goal of having 50% of its electric power installed
intent to celebrate the success so far and discuss	capacity from non-fossil fuel-based energy
the potential ways forward for accelerating wind	resources by 2030 and to achieve Net Zero by
energy adoption in India, the event had the central	2070. India has significant potential for both
theme of "Pawan – Urja: Powering the Future of	onshore and offshore wind energy production.
India". The celebration featured in-depth	With the continuous efforts from the government,
discussions on Wind Energy Progress in India,	the country has developed around 15 GW of
Offshore Wind development, Strengthening of	domestic wind manufacturing capacity, making it
wind energy manufacturing ecosystem and Green	Aatma Nirbhar.
Finance for Wind Energy.	

Context - Rajasthan, Gujarat and Tamil Nadu emerge Top Achievers in Wind Energy Adoption

Q.39) With reference to 'Open Market Sale Scheme (OMSS)', consider the following statements

- 1. Food Corporation of India (FCI) sells surplus stocks of wheat and rice at highest bids through eauction
- 2. The FCI conducts a monthly auction to conduct this scheme in the open market using the platform of commodity exchange NCDEX
- 3. Only State Governments are also allowed to participate in the e-auction

How many of the statement(s) given above are correct

a) Only one

- b) Only two
- c) All three
- d) None

Q.39) Solution (d)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Incorrect	Incorrect	Incorrect
Under OMSS, the Food	The FCI conducts a weekly auction	The State Governments/ Union
Corporation of India (FCI)	to conduct this scheme in the	Territory Administrations are also
sells surplus stocks of	open market using the platform of	allowed to participate in the e-
wheat and rice at pre-	commodity exchange	auction, if they require wheat and rice
determined prices through	NCDEX(National Commodity and	outside the Targeted Public
e-auction in the open	Derivatives Exchange Limited).	Distribution Scheme (TPDS) and Other
market.		Welfare Schemes (OWS).

Context - The Central Government recently discontinued the sale of rice and wheat from the central pool under the Open Market Sale Scheme (OMSS) to State governments.

Q.40) Consider the following statements with respect to 'India Infrastructure Project Development Funding Scheme (IIPDF)'

- 1. It is a Central Sector Scheme which will aid the development of quality PPP projects in the Central and State Governments
- 2. The corpus of the IIPDF shall comprise of initial budgetary outlay of Rs. 1000 Crore by the Ministry of Finance

Select the correct statement(s)

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

Q.40) Solution (a)

Statement Analysis:

Statement 1	Statement 2
Correct	Incorrect
It is a Central Sector Scheme which will aid the	The corpus of the IIPDF shall comprise of initial
development of quality PPP projects by	budgetary outlay of Rs. 100 Crore by the Ministry of
providing necessary funding support to the	Finance. Funding under IIPDF Scheme is in addition to
project sponsoring authorities, both in the	the already operational Scheme for Financial Support
Central and State Governments.	to PPPs in Infrastructure (VGF Scheme).

Context - The Infrastructure Finance Secretariat has launched the IIPDF Portal for submitting applications for consideration under IIPDF Scheme.

Q.41) Consider the following statements with respect to 'International Energy Agency'

- 1. It is an autonomous inter-governmental organisation within the United Nations framework
- 2. Crude oil and/or product reserves equivalent to 6 months of the previous year's net imports is one of the criteria for membership
- 3. India presently has the status of an observer at the IEA

How many of the statement(s) given above are correct

- a) Only one
- b) Only two
- c) All three
- d) None

Q.41) Solution (d)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Incorrect	Incorrect	Incorrect
International Energy Agency is	Crude oil and/or product reserves are equivalent to	India joined
an autonomous inter-	90 days of the previous year's net imports, to which	this
governmental organisation	the government has immediate access (even if it does	organization in
within the OECD framework. It	not own them directly) and could be used to address	2017 as an
works with governments and	disruptions to global oil supply. A demand restraint	Associate
industry to shape a secure and	programme to reduce national oil consumption by up	member.
sustainable energy future for	to 10%. Legislation and organisation to operate the	
all. It was founded in 1974 to	Co-ordinated Emergency Response Measures (CERM)	
ensure the security of oil	on a national basis are some of the criteria for	
supplies.	membership	

Context - The executive director of the International Energy Agency (IEA), said it would review all its membership conditions for India's inclusion in the world's premier energy monitoring organization.

Q.42) With reference to 'VAIBHAV fellowship Programme', consider the following statements

- 1. The fellowship would be awarded to outstanding scientists/technologists of Indian Origin
- 2. It is implemented by the Ministry of Education

Select the correct statement(s)

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

Q.42) Solution (a)

Statement Analysis:

Statement 1	Statement 2
Correct	Incorrect
VAIBHAV fellowship Programme would be awarded to outstanding	It is implemented by the
scientists/technologists of Indian origin (NRI/OCI/PIO) who are engaged	Department of Science and
in research activities in their respective countries. The VAIBHAV Fellow	Technology (DST), Ministry
would identify an Indian Institution for collaboration and may spend up	of Science and Technology.
to two months in a year for a maximum of 3 years.	

Context - The Government of India has launched a new fellowship programme to connect the Indian Science, Technology, Engineering, Mathematics and Medicine (STEMM) diaspora with Indian academic and R&D institutions.

Q.43) 'Kanika Range in Odisha' which was in news is known for

- a) Discovery of Rare Earth minerals
- b) Neolithic site
- c) Crater formations
- d) Natural arch

Q.43) Solution (d)

The Sundargarh natural arch, present in the ferruginous sandstone of the Upper Kamthi formation, dates back to about 184 to 160 million years in the lower to middle Jurassic age. If it is done, it will be the biggest natural arch of the country to have the Geo Heritage tag. The state unit of the Geological Survey of India (GSI) has proposed to declare the 'Natural Arch' in the Kanika range of Sundargarh forest division, a Geo Heritage Site.

Context - A team of the Geological Survey of India recently discovered India's biggest natural arch during their survey of coal in Kenduadihi block in Odisha's Sundargarh district.

Q.44) Consider the following statements about 'Geminid meteor shower'

- 1. It peaks during Aphelion each year and is considered to be the most reliable annual meteor showers
- 2. The Geminid stream appears to originate from an asteroid known as 3200 Phaethon

Select the correct statement(s)

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

Q.44) Solution (b)

Statement Analysis:

Statement 1	Statement 2
Incorrect	Correct
Geminid meteor shower peaks during mid-December each	Unlike most meteor showers that
year and is considered to be one of the best and most reliable	originate from comets, the Geminid
annual meteor showers. The 3200 Phaethon It is classified as	stream appears to originate from an
an asteroid- the first to be discovered via satellite.	asteroid known as 3200 Phaethon.

Context - NASA's Parker Solar Probe mission has shed new light on the origin of the intense Geminid meteor shower.

Q.45) Consider the following statements

- 1. Landfall refers to a situation where the core of high winds (or eyewall) comes onshore but the centre of the storm may remain offshore
- 2. A tropical cyclone is said to have made a landfall when the center of the storm moves over the coast according to INCOIS
- 3. Landfalls can last for a few hours, with their exact duration depending on the speed of the wind

How many of the statement(s) given above are correct

- a) Only one
- b) Only two
- c) All three
- d) None

Q.45) Solution (a)

Statement Analysis:

Statement 1	Statement 2	Statement 3	
Incorrect	Incorrect	Correct	
A landfall should not be	As per the IMD, a	Landfalls can last for a few hours, with their	
confused with a 'direct hit',	tropical cyclone is said	exact duration depending on the speed of	
which refers to a situation	to have made a landfall	the winds and the size of the storm system.	
where the core of high winds	when the center of the	e.g., Cyclone Biparjoy's land process is	
(or eyewall) comes onshore	storm – or its eye –	expected to last around five to six hours, with	
but the centre of the storm	moves over the coast.	the cyclone almost completely dissipating	
may stay remain offshore.		over approximately the next 24 hours.	

Context - On June 15, the landfall process of Cyclone Biparjoy started near Jakhau port in the state's Kutch district and continued till midnight.

Q.46) Consider the following statements about 'Kedarnath Temple'

- 1. It is the only temple in North India to be built in Vesara style
- 2. It is one of the four sites of the Char Dham Pilgrimage circuit
- 3. It is located close to the source of Mandakini river in the Garhwal Himalayan range

How many of the statement(s) given above are correct

- a) Only one
- b) Only two
- c) All three
- d) None

Q.46) Solution (a)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Incorrect	Incorrect	Correct
Standing majestically tall at	Kedarnath forms one of the four sites of	Kedarnath Temple is a Hindu
an altitude of 3,969 metres	the Chota Char DhamPilgrimage circuit,	temple dedicated to Shiva. It is
above sea level, the	and is one of the 12 Jyotirlingas of Lord	located at a height of 3,584
Kedarnath temple has been	Shiva in India. It is said that the Pandavas	meters on the Garhwal
built in the Rekha-Sikhara	constructed the Kedarnath Temple which	Himalayan range near the
		Mandakini river, in the

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style with three different	was later reconstructed by Adi	Rudraprayag District of	
horizontal divisions.	Shankaracharya in the 8th century A.D.	Uttarakhand.	

Context - The Uttarakhand government recently decided to set up a high-level committee to probe allegations of a ₹ 1.25 billion scam in gold plating the sanctum sanctorum of the Kedarnath temple.

Q.47) With reference to 'Air Independent Propulsion (AIP) System' used in submarines, consider the following statements

Statement 1 - It allows the submarines to stay in water by eliminating the need to come to the surface of the water to charge their batteries

Statement 2 - AIP systems generate electricity, which in turn drives an electric motor for propulsion or recharges the boat's batteries

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

Q.47) Solution (d)

Statement Analysis:

Statement 1	Statement 2
Incorrect	Correct
AIP system allows the submarines to stay for	AIP is mostly implemented as an auxiliary source, with
longer hours in water. The submarines need to	the traditional diesel engine handling surface
come to the surface of the water to charge propulsion. Most of these systems generate	
their batteries. This is reduced by AIP System. It	electricity, which in turn drives an electric motor for
decreases the noise levels made by the	propulsion or recharges the boat's batteries. AIP
submarines. This makes it hard to detect the	allows longer submergence than a conventionally
submarines.	propelled submarine.

Context - Larsen & Toubro and the Defence Research and Development Organisation (DRDO) signed a contract for the realisation of two Air Independent Propulsion (AIP) System Modules for Kalvari Class of submarines of the Indian Navy.

Q.48) Consider the following statements about 'Cumin (Jeera)'

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- 1. It is a Rabi crop cultivated mainly in Gujarat and Rajasthan
- 2. India is the largest producer of Cumin in the world
- 3. It is an aromatic seed that is believed to be native to the South American region

How many of the statement(s) given above are correct

- a) Only one
- b) Only two
- c) All three
- d) None

Q.48) Solution (b)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Correct	Correct	Incorrect
Jeera is a Rabi crop and is	India accounts for some 70%	Jeera is an aromatic seed that adds an
cultivated mainly in Gujarat and	of the world's production of	extra punch of taste to Indian dishes.
Rajasthan. It is a highly weather-	this seed spice. Other	It is believed that Jeera is native to the
sensitive crop. It requires a	countries such as Syria,	Mediterranean region, and it was
moderately cool and dry climate	Turkey, UAE and Iran make	well-known in Ancient Egypt, Greece,
without any humidity.	up the balance 30%.	and Rome.

Context – It was in news due to sudden surge in prices.

Q.49) 'Debrigarh Wildlife Sanctuary' seen in news recently is located in

- a) West Bengal
- b) Jharkhand
- c) Assam
- d) Odisha

Q.49) Solution (d)

The Debrigarh wildlife sanctuary is located in the Sambalpur district in the Indian state of Odisha, covering a total area of 346.91 km2. It is situated near the city of Sambalpur's Hirakud Dam. It finds a special mention because of noted freedom fighter Veer Surendra Sai. During his rebellion against the British Veer Surendra Saimade his base at 'Barapathara' located within the sanctuary.

Context – The wildlife sanctuary was in news.

Q.50) Consider the following statements about 'cultured meat'

- 1. It is meat produced by culturing animal cells in vivo
- 2. Singapore is the only other country where cultured meat is approved and commercialized.

Select the INCORRECT statement(s)

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

Q.50) Solution (c)

Statement Analysis:

Statement 1	Statement 2	
Incorrect	Incorrect	
Cultured meat (also known by other names) is meat	With the approval by the USDA in June, the	
produced by culturing animal cells in vitro. It is a form of	US joins Singapore as the only other	
cellular agriculture. Cultured meat is produced using tissue	country where cultured meat is approved	
engineering techniques pioneered in regenerative	and commercialized.	
medicine.		

Context - Two U.S. companies have received the U.S. Food and Drug Administration (FDA) approval to make and sell their cell-cultivated chicken.

Q.51) With reference to 'Order of the Nile Award', consider the following statements

- 1. It is Egypt's highest state honour conferred upon Heads of state or Crown Princes only
- 2. Narendra Modi is the second Indian Prime Minister to receive this award

Select the correct statement(s)

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

Q.51) Solution (d)

Statement Analysis:

Statement 1	Statement 2	
Incorrect	Incorrect	
Order of the Nile Award is Egypt's highest state honour.	PM Modi is the first Indian to have	
Instituted in 1915, the 'Order of the Nile' is conferred upon	received this honour in Egypt. He is also	
Heads of state, Crown Princes, and Vice-Presidents who offer	the first Prime Minister to have	
Egypt or humanity invaluable services.	received this award.	

Context - The Egyptian President conferred the country's highest state honour "Order of the Nile" award to the Prime Minister of India

Q.52) Consider the following statements with respect to 'Liberalised Remittances Scheme (LRS)'

- 1. The scheme allows remittances up to USD \$250,000 per financial year on current or capital account transactions
- 2. Only individual Indian residents, HUF, Corporates are permitted to remit funds under LRS
- 3. There is no tax on any profit made on foreign investments made under LRS

How many of the statement(s) given above are correct

- a) Only one
- b) Only two
- c) All three
- d) None

Q.52) Solution (a)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Correct	Incorrect	Incorrect
LRS allows Indian residents to freely	Only individual Indian residents,	If any profit is made on
remit up to USD \$250,000 per financial	including minors, are permitted	foreign investments made
year for current or capital account	to remit funds under LRS.	under LRS, it is taxable in
transactions or a combination of both.	Corporates, partnership firms,	India based on how long
Any remittance exceeding this limit	HUF, trusts, etc., are excluded	the investment was held.
requires prior permission from the RBI.	from its ambit.	

Context - Twenty per cent tax on Liberalised Remittances Scheme (LRS) of the Reserve Bank of India is set to kick off soon.

Q.53) 'Hasarius Mumbai' which was discovered recently are a species of

- a) Dragon flies
- b) Spiders
- c) Crabs
- d) Frogs

Q.53) Solution (b)

Hasarius Mumbai is a newly discovered species of jumping spider. These are spiders who, instead of trapping their prey in a web, stalk and hunt them by pouncing. It has multiple eyes that give a 360-degree view of its surroundings and a bulbous body covered in hair. The word 'Hasarius' refers to a genus that ranks the species — of 'jumping spiders' in the 'salticidae' family. In India, there are only two other Hasarius species which have been documented, namely H. Adansoni, which is found across the country, including in urban areas, and kjellerupi, which was documented from the Nicobar Islands.

Context - A new species of jumping spider named 'Hasarius Mumbai' was recently discovered from the rocks close to the streams in Goregaon East.

Q.54) With reference to 'Pelagic birds', consider the following statements

- 1. These are seabirds that live on open seas and oceans rather than inland
- 2. They have exceptionally long and thin wings that allow them to fly effortlessly for long periods
- 3. Almost all seabirds live in colonies, migrate annually, and mate for life

How many of the statement(s) given above are correct

- a) Only one
- b) Only two
- c) All three
- d) None

Q.54) Solution (c)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Correct	Correct	Correct
Pelagic Birds are seabirds that live	They have exceptionally long and thin	Almost all seabirds live in
on open seas and oceans rather	wings that allow them to fly	colonies, migrate annually,
than inland or around more	effortlessly for long periods without	and mate for life. In
restricted waters such as lakes and	rest. Many pelagic birds have special	general, seabirds live

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rivers. They can be found	salt glands. This allows them to drink	longer than other wild
thousands of miles offshore but	seawater and discard extra salt	birds; most have an
can get blown onto land during	accidentally ingested by their oceanic	average lifespan of 50
high winds and storms.	prey.	years

Context - Birdwatchers and enthusiasts of Gujarat have recently reported sightings of Pelagic birds in places not typically associated with their presence.

Q.55) Consider the following statements with respect to 'Light Detection and Ranging'

Statement 1 - LiDAR systems allow scientists and mapping professionals to examine both natural and manmade environments with accuracy, precision, and flexibility.

Statement 2 – LiDAR is a remote sensing method that uses light in the form of Infrared rays to measure ranges (variable distances) to the Earth

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

Q.55) Solution (c)

Statement Analysis:

Statement 1	Statement 2
Correct	Incorrect
Lidar systems allow scientists and mapping	LiDAR, which stands for Light Detection and
professionals to examine both natural and	Ranging, is a remote sensing method that uses
manmade environments with accuracy,	light in the form of a pulsed laser to measure
precision, and flexibility. It is used to produce	ranges (variable distances) to the Earth. These
more accurate shoreline maps, make digital	light pulses—combined with other data
elevation models for use in geographic	recorded by the airborne system — generate
information systems, assist in emergency	precise, three-dimensional information about
response operations, and in many other	the shape of the Earth and its surface
applications.	characteristics.

Context - The technology was in news

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Q.56) 'World Competitiveness Index' is published by

- a) World Trade Organization
- b) International Institute for Management Development (IMD)
- c) World Economic Forum
- d) International Monetary Fund

Q.56) Solution (b)

World Competitiveness Index is a comprehensive annual report and worldwide reference point on the competitiveness of countries. It analyses and ranks countries according to how they manage their competencies to achieve long-term value creation. It is based on 336 competitiveness criteria and four factors, namely Economic performance, Government efficiency, Business efficiency, and Infrastructure. Denmark, Ireland, and Switzerland have been named the top three among 64 economies measured for their global competitiveness. India fell three rungs to finish 40th but is still in a better position than it was between 2019-2021 when it was placed 43rd three years in a row.

Context - The International Institute for Management Development (IMD) published the World Competitiveness Index recently

Q.57) With reference to 'United Nations Office for Outer Space Affairs (UNOOSA)', consider the following statements

- 1. It implements the United Nations Programme on Space Applications (PSA)
- 2. It maintains the Register of Objects Launched into Outer Space on behalf of the UN Security Council
- 3. It works to improve the use of space science and technology for the economic and social development of all countries

How many of the statement(s) given above are correct

- a) Only one
- b) Only two
- c) All three
- d) None

Q.57) Solution (b)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Correct	Incorrect	Correct
United Nations Office for Outer	On behalf of the UN	It works to improve the use of space
Space Affairs (UNOOSA) is the UN	Secretary-General,	science and technology for the

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office responsible for promoting international cooperation in the peaceful uses of outer space.
UNOOSA implements the United Nations Programme on Space Applications (PSA). Under the Programme, UNOOSA conducts training courses, workshops, seminars and other activities on space applications.

UNOOSA maintains the Register of Objects Launched into Outer Space and disseminates via its website that information recorded in the Register. economic and social development of all countries, particularly developing countries. It also prepares and distributes documents, reports, studies and publications on various aspects of space science and technology applications and international space law.

Context - The UN Secretary-General recently appointed Indian-origin satellite industry expert Aarti Holla-Maini as Director of the United Nations Office for Outer Space Affairs (UNOOSA).

Q.58) Consider the following statements about 'Digital Publisher Content Grievances Council (DPCGC)'

- 1. It is an independent self-regulatory body for Online Curated Content (OCC) providers
- 2. It has been registered by the Ministry of Electronics and Information Technology under IT (Intermediary Guidelines and Digital Media Ethics Code) Rules, 2021

Select the correct statement(s)

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

Q.58) Solution (a)

Statement Analysis:

Statement 1	Statement 2
Correct	Incorrect
Digital Publisher Content Grievances	DPCGC has been recognised and registered by the Ministry
Council (DPCGC) is an independent self-	of Information & Broadcasting as Level II Self-Regulatory
regulatory body for Online Curated	Body for publishers of OCC providers, under Information
Content (OCC) providers. It was set up	Technology (Intermediary Guidelines and Digital Media
under the aegis of Internet and Mobile	Ethics Code) Rules, 2021. The DPCGC has an Online
Association of India (IAMAI).	Curated Content Publishers (OCCP) Council composed of
	publishers of OCC as members and an independent
	Grievance Redressal Board [GRB] consisting of a
	chairperson and six members.

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Context - The Digital Publisher Content Grievances Council (DPCGC) recently recommended punitive action on an OTT platform, invoking the Information Technology Rules (2021).

Q.59) Consider the following

- Door-to-door waste collection
- 2. Waste to Wonder Parks
- 3. Divyang-friendly toilets
- 4. Improved plastic waste management
- 5. Red spots

On which of the indicators mentioned above, 'Swachh Survekshan 2023' is based

- a) Only two
- b) Only three
- c) Only four
- d) All five

Q.59) Solution (d)

Swachh Survekshan 2023 indicators focus on parameters pertaining to segregated door-to-door waste collection, zero waste events, Divyang-friendly toilets, improved plastic waste management and cleaning backlanes, wherein the marks have been increased this year. Laying emphasis on transforming 'manholes' to 'machine holes', priority has been given to Safaimitra Suraksha. 2x marks have been increased under this component. The new indicator of Waste to Wonder Parks has been introduced with 2% weightage. Swachh TULIP, primarily for more than 1 lakh population cities enters SS 2023 as a new indicator. Besides this, Red Spots (spitting in commercial/ residential area) has also been added as a new indicator under cleaning of public areas. Special emphasis is being laid on Promotion of RRR – Functionality of RRR Centres. 40% weightage has been indicated for detailed technical assessment of all waste treatment facilities in cities this year.

Context - 8th edition of World's Largest Urban Cleanliness Survey began recently

Q.60) Consider the following statements about "Special Assistance to States for Capital Investment 2023-24"

- 1. Special assistance is being provided to the State Governments in the form of 50-year interest free loan under this scheme
- 2. A part of the allocation amongst States is in proportion to their share of central taxes & duties as per the award of the 15th Finance Commission
- 3. There is a provision in the scheme which incentivizes States to scrap State Government vehicles and ambulances

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How many of the statement(s) given above are correct

- a) Only one
- b) Only two
- c) All three
- d) None

Q.60) Solution (c)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Correct	Correct	Correct
Under the scheme, special	Part-I of the scheme being the	For the Part–II, Rs. 3,000
assistance is being provided to	largest with allocation of Rs. 1 lakh	crores have been set aside
the State Governments in the	crore and has been allocated	for providing incentives to
form of 50-year interest free loan	amongst States in proportion to	States for scrapping of State
up to an overall sum of Rs. 1.3	their share of central taxes & duties	Government vehicles and
lakh crore during the FY 2023-24.	as per the award of the 15th Finance	ambulances, etc.
	Commission.	

Context - The Department of Expenditure under the Finance Ministry has approved capital investment proposals of Rs 56,415 crore for 16 states in the current financial year 2023-24 (FY 23-24).

Q.61) Consider the following statements with respect to 'PM-PRANAM'

- 1. The scheme aims to incentivise states to promote alternative fertilisers and reduce the use of chemical fertilisers
- 2. The scheme will not have a separate budget
- 3. All the subsidy savings will be passed on to the state that saves the money as a grant

How many of the statement(s) given above are correct

- a) Only one
- b) Only two
- c) All three
- d) None

Q.61) Solution (b)

Statement Analysis:

Statement 1	Statement 2	Statement 3

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Correct	Correct	Incorrect
PM-PRANAM stands for	The scheme will not	50% of subsidy savings will be passed on to the state
PM Programme for	have a separate	that saves the money as a grant. 70% of this grant can
Restoration, Awareness,	budget. It will be	be used to create assets related to the technological
Nourishment and	financed by the	adoption of alternate fertilisers and alternate
Amelioration of Mother	savings of existing	fertiliser production units at the village block, and
Earth. The scheme aims	fertiliser subsidy	district levels. The remaining 30% grant money can be
to reduce the use of	under schemes run	used to reward and encourage farmers, panchayats,
chemical fertilisers by	by the Department	and other stakeholders involved in fertiliser reduction
incentivising state.	of fertilisers.	and awareness generation.

Context - The Centre has approved a new scheme PM-PRANAM to incentivise states to promote alternative fertilisers and reduce the use of chemical fertilisers.

Q.62) 'UTPRERAK', a centre of excellence which was launched recently is related to

- a) Vaccine research
- b) Artificial Intelligence
- c) Energy efficiency
- d) Food engineering

Q.62) Solution (c)

The Unnat Takniki Pradarshan Kendra (UTPRERAK) is the Centre of Excellence to Accelerate Adoption of Energy Efficient Technologies and seeks to play a catalytic role in improving the energy efficiency of the Indian industry. It is also named as Advanced Industrial Technology Demonstration Centre (AITDC). It has been set up by the Bureau of Energy Efficiency (BEE), Ministry of Power.

Context - The Union Minister of State for Power inaugurated UTPRERAK, a dedicated Centre of Excellence, to accelerate industry adoption of clean technologies in New Delhi

Q.63) With reference to 'Solar Mean Magnetic Field (SMMF)', consider the following statements

- 1. It refers to the average strength and direction of the magnetic field on the surface of the Sun
- 2. The value of chromospheric SMMF is lower than the photospheric SMMF,

Select the INCORRECT statement(s)

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

Q.63) Solution (d)

Statement Analysis:

Statement 1	Statement 2
Correct	Correct
Solar Mean Magnetic Field is the mean value of	The value of chromospheric SMMF is lower than
the line-of-sight (LOS) component of the solar	the photospheric SMMF, thereby suggesting that
vector magnetic field averaged over the visible	the primordial magnetic field inside the sun could
hemisphere as well as its relationship with	be a source of the SMMF. Scientists, in their quest
Interplanetary Magnetic Field (IMF). The Solar	to understand if and how the SMMF at
Mean Magnetic Field (SMMF) refers to the average	chromospheric heights is related to the SMMF at
strength and direction of the magnetic field on the	photospheric heights, have found a very good
surface of the Sun.	similarity between the two.

Context - Scientists from the Indian Institute of Astrophysics (IIA) through their latest study have given a clearer picture of how the sun's magnetic field influences the interplanetary magnetic space.

Q.64) Consider the following statements with respect to 'Employees' Provident Fund Organisation (EPFO)'

- 1. It is an executive body working under the Ministry of Labour and Employment
- 2. The administrative board consists of representatives from Government, Employers, and Employees

Select the correct statement(s)

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

Q.64) Solution (b)

Statement Analysis:

Statement 1	Statement 2
Incorrect	Correct
Employees' Provident Fund Organisation (EPFO) is a	The Act and Schemes framed there under are
statutory bodythat came into existence under the	administered by a tripartite Board known as the
Employees' Provident Fund and Miscellaneous	Central Board of Trustees, Employees' Provident
Provisions Act, of 1952. The EPFO is under the	Fund, consisting of representatives of

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administrative control of the Ministry of Labour and	Government (Both Central and State),
Employment, Government of India.	Employers, and Employees.

Context - (EPFO) has extended the deadline for members and pensioners to apply for higher Provident Fund (PF) pensions till July 11.

Q.65) Consider the following statements

- 1. India has the second-largest road network in the world after China
- 2. The quantitative density of India's road network is substantially higher than the United States and China
- 3. State Highways constitute the highest proportion of roads in terms of length

How many of the statement(s) given above are correct

- a) Only one
- b) Only two
- c) All three
- d) None

Q.65) Solution (a)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Incorrect	Correct	Incorrect
India has a network of	At (1.94 km, 1.21 mi) of roads per	According to Ministry of Road
over 6,215,797	square kilometre of land, the	Transport and Highways, as of March
kilometres (3,862,317	quantitative density of India's road	2021, India had about 151,019
mi) of roads as of 1	network is equal to that of Hong	kilometres (93,839 mi) of national
December 2021. This is	Kong, and substantially higher than	highways and expressways, plus
the second-largest road	the United States (0.71 km, 0.44	another 186,528 kilometres (115,903
network in the world,	mi), China (0.54 km, 0.34 mi), Brazil	mi) of state highways. However, rural
after the United States.	(0.23 km, 0.14 mi) and Russia (0.09	roads and highways constitute
	km, 0.056 mi)	4,535,511 kms or 72.97% of the total
		length of roads in India.

Context - Union Road Transport and Highways Minister said total length of the National Highways in the country increased by about 59% in the last nine years.

Q.66) Consider the following statements about 'Giant Metrewave Radio Telescope (GMRT)'

1. It is a high-frequency radio telescope that helps investigate various radio astrophysical problems

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2. It is presently the world's smallest radio telescope operating at meter wavelength

Select the correct statement(s)

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

Q.66) Solution (d)

Statement Analysis:

Statement 1	Statement 2		
Incorrect	Incorrect		
Giant Metrewave Radio Telescope	GMRT is presently the world's largest radio telescope		
(GMRT) is a low-frequency radio	operating at meter wavelength. It consists of 30 fully-		
telescope that helps investigate various	steerable dish type antennas of 45-meter diameter each,		
radio astrophysical problems ranging	spread over a 25-km region. Two of its most important		
from nearby solar systems to the edge of	astrophysical objectives are: to detect the highly redshifted		
the observable universe. Located at	spectral line of neutral Hydrogen expected from proto-		
Khodad, 80 km north of Pune, the	clusters or protogalaxies before they condensed to form		
telescope is operated by the National	galaxies in the early phase of the Universe; to search for and		
Centre of Radio Astrophysics (NCRA).	study rapidly-rotating Pulsars in our galaxy		

Context - India's Giant Metrewave Radio Telescope (GMRT) played a role in confirming the presence of gravitational waves using pulsar observations.

Q.67) With reference to 'Zero FIR', consider the following statements

- 1. It refers to an FIR that is registered irrespective of the area where the offence is committed
- 2. It was introduced on the recommendation of the Justice Malimath Committee
- 3. It finds place in the Indian Penal Code

How many of the statement(s) given above are correct

- a) Only one
- b) Only two
- c) All three
- d) None

Q.67) Solution (a)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Correct	Incorrect	Incorrect
Zero FIR refers to an FIR that is	It was introduced on the	Section 154 of
registered irrespective of the area where	recommendation of the Justice Verma	Criminal code
the offence is committed. The police, in	Committee formed at the backdrop of	Procedure Act 1973,
such a case, can no longer claim that	the brutal Nirbhaya gang rape in Delhi	states about the FIR
they have no jurisdiction. Such an FIR is	in 2012. This puts a legal obligation on	(first information
then later transferred to the police	the police to begin an investigation	report). ZERO FIR
station that has the actual jurisdiction so	and take quick action without the	also fall under
that the investigation can begin.	excuse of the absence of jurisdiction.	section 154 of crpc.

Context - Recently, in Manipur violence incidents, nearly 30% of First Information Reports (FIRs) were 'zero FIRs', filed suo-motu by the police.

Q.68) Consider the following statements about 'National Research Foundation (NRF)'

- 1. NRF will seed, grow and promote R&D throughout India's universities, research institutions and R&D laboratories
- 2. NRF's functioning will be governed by an Executive Council chaired by the Principal Scientific Adviser
- 3. It will be established as per the recommendations of the National Education Policy (NEP), at a total estimated cost of ₹5,00,000 crore

How many of the statement(s) given above are correct

- a) Only one
- b) Only two
- c) All three
- d) None

Q.68) Solution (b)

Statement Analysis:

Statement 1	ment 1 Statement 2	
Correct	Correct	Incorrect
NRF Bill 2023 will pave the	NRF's functioning will be governed by an	As per the
way to establish NRF that will	Executive Council chaired by the Principal	recommendations of the
seed, grow and promote R&D	Scientific Adviser to the Government of	National Education Policy
and foster a culture of	India. The DST would be an	(NEP), NRF will be

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research and innovation throughout India's universities, colleges, research institutions and R&D laboratories. The proposed Bill also repeals the Science and Engineering Research Board (SERB) established by Parliament in 2008 and subsumes it into the NRF.

"administrative" department of NRF that would be governed by a Governing Board. The Prime Minister will be the exofficio President of the Board and the Union Minister of Science & Technology and Union Minister of Education will be the ex-officio Vice-Presidents. The Governing Board will also consist of eminent researchers and professionals across disciplines.

established at a total estimated cost of ₹50,000 crore from 2023-28. The government will contribute ₹10,000 crore over five years and close to ₹36,000 crore is expected to come from the private sector (as investments into research).

Context - The Union Cabinet approved the National Research Foundation (NRF) Bill 2023, which will establish NRF as an apex body

Q.69) 'Children and Armed Conflict report' is published by

- a) UNICEF
- b) International Red Cross
- c) UN Secretary General
- d) Office of the High Commissioner for Human Rights

Q.69) Solution (c)

Children and Armed Conflict Report is the annual report presents a comprehensive picture of child soldiers, highlights the disproportionate impact of war on children and identifies them as the primary victims of armed conflict. The Special Representative of the Secretary-General for Children and Armed Conflict serves as the leading UN advocate for the protection and well-being of children affected by armed conflict. It is the annual report of UN Secretary-General on Children and Armed Conflict.

Context - UN Secretary-General Antonio Guterres has removed India from his annual report on the impact of armed conflict on children

Q.70) With reference to 'Critical minerals', consider the following statements

Statement 1 – They are metallic or non-metallic element that are essential for the functioning of our modern technologies

Statement 2 - They are used to manufacture advanced technologies and are also used in low-emission technologies

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

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- 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

Q.70) Solution (a)

Statement Analysis:

Statement 1	Statement 2	
Correct	Correct	
Critical Minerals is a metallic or	They are used to manufacture advanced technologies, including	
non-metallic element that has	mobile phones, computers, fibre-optic cables, semiconductors,	
two characteristics. It is essential	banknotes, and defence, aerospace and medical applications. Many	
for the functioning of our modern	are used in low-emission technologies, such as electric vehicles,	
technologies, economies or	wind turbines, solar panels, and rechargeable batteries. Some are	
national security and	also crucial for common products, such as stainless steel and	
	electronics.	

Context - The Central Government recently identified 30 minerals as critical to India, including lithium and vanadium, which are largely used in the manufacturing of batteries.

Q.71) Consider the following statements about Centralized Laboratory Network (CLN)

- 1. It is a part of the Coalition for Epidemic Preparedness Innovations (CEPI).
- 2. Recently, Indian Council of Medical Research-National Institute of Virology joined the CLN.

Choose the incorrect statements:

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

Q.71) Solution (d)

Statement Analysis

Statement 1	Statement 2
Correct	Correct
Centralized Laboratory Network New members	
 It works to test vaccines which can be used during pandemic, epidemic disease outbreak. It currently has 15 partner facilities in 13 countries. 	 Indian Council of Medical Research- National Institute of Virology (ICMR-NIV). Senegal, Kenya,

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- It is a part of the Coalition for Epidemic Preparedness Innovations (CEPI).
- This Network is the largest global group which has standardized methods and materials for testing.
- South Africa,
- Uganda.

Context: India has joined the Centralized Laboratory Network (CLN).

Q.72) Consider the following statements about Combined Maritime Forces (CMF)

- 1. It is a multi-national naval partnership, which exists to promote security, stability and prosperity across international waters.
- 2. Combined Maritime Forces (CMF) is commanded by a U.S. Navy Vice Admiral.
- 3. Recently, India joined as a member to this organization.

How many of the statements given above are correct?

- a) Only One
- b) Only Two
- c) All Three
- d) None

Q.72) Solution (b)

Statement Analysis

Statement 1	Statement 2	Statement 3		
Correct	Correct	Incorrect		
 It is a multi-national naval partnership, which exists to promote security, stability and prosperity across international waters, which encompass some of the world's most important shipping lanes. Aim - It aims to uphold the Rules-Based International Order (RBIO). Its main focus areas are defeating terrorism, preventing piracy, encouraging regional cooperation, and promoting a safe maritime environment. 	 Comprised of 3 task forces: CTF 150 (maritime security and counter-terrorism), CTF 151 (counter piracy) and CTF 152 (Arabian Gulf security and cooperation). It has 34 member nations. Commanded by a U.S. Navy Vice Admiral, who also serves as Commander U.S. Naval 	 India is not a member of CMF. In 2022, at the India-US 2+2, India announced it would join the Combined Maritime Forces (CMF) as an Associate Partner. 		

Context: The UAE withdrew its participation in the Combined Maritime Forces.

Q.73) Consider the following statements about Acinetobacter Baumannii

- 1. It is a gram-negative bacillus that is aerobic, pleomorphic and non-motile.
- 2. It is an opportunistic viral pathogen primarily associated with hospital-acquired infections.

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Choose the correct statements:

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

Q.73) Solution (a)

Statement Analysis

Statement 1	Statement 2	
Correct	Incorrect	
Acinetobacter Baumannii	• It is an opportunistic bacterial pathogen primarily associated with hospital-acquired infections.	
• It is a Gram-negative bacillus that is aerobic, pleomorphic (Occurring in various distinct	• It occurs particularly those who have experienced a prolonged (> 90 days) hospital stay.	
forms) and non-motile (not capable of movement).	Impacts	
	Commonly associated with aquatic environments.	
	• It has been shown to colonize the skin as well as being isolated in	
	high numbers from the respiratory and oropharynx secretions of infected individuals.	
	• In recent years, it has been designated as a "red alert" human	
	pathogen, generating alarm among the medical fraternity, arising largely from its extensive antibiotic resistance spectrum.	

Context: Researchers have used machine-learning to identify a potential new antibiotic against of disease-causing bacteria, A. Baumannii.

Q.74) Consider the following statements about Small Finance Banks (SFBs)

- 1. They are required to maintain a minimum Capital to Risk-Weighted Assets Ratio (CRAR) of 15%.
- 2. They are required to extend 75% of their Adjusted Net Bank Credit to Priority Sector Lending.
- 3. SFBs are required to open at least 25% of their total branches in unbanked rural areas.

How many of the statements given above are correct?

- a) Only One
- b) Only Two
- c) All Three
- d) None

Q.74) Solution (c)

Statement Analysis

Option c

Correct

- SFBs are specialized banks that are licensed by RBIto provide financial services and products to lowincome individuals and underserved communities, including microfinance and micro-enterprise services, as well as other basic banking services.
- SFBs are registered as public limited companies under the Companies Act, 2013 and governed by Banking Regulations Act, 1949; RBI Act, 1934 and other relevant Statutes and Directives from time to time.
- The guidelines for SFBS were introduced in 2014 by RBI. RBI Guidelines on SFBs in India are:
- SFBs are granted the scheduled bank status after being operational and are deemed suitable under section 42 of the RBI Act,1934.
- SFBs are required to primarily focus on providing access to financial services to the unbanked and underbanked segments of the population.
- They are required to maintain a minimum Capital to Risk-Weighted Assets Ratio (CRAR) of 15%.
- They are required to extend 75% of their Adjusted Net Bank Credit to Priority Sector Lending.
- SFBs are required to open at least 25% of their total branches in unbanked rural areas.
- The minimum paid-up voting equity capital for small finance banks shall be Rs.200 crore.
- SFBs are required to maintain at least 50% of their loan portfolio as microfinance and advances of up to Rs. 25,00,000.
- SFBs are required to comply with various prudential norms and regulations related to income recognition, asset classification, and provisioning.
- SFBs are encouraged to adopt technology to improve their operational efficiency and reach the target segments.

Context: The Reserve Bank of India (RBI)-appointed director, recently resigned from the board of Ujjivan Small Finance Bank (SFB).

Q.75) Guarani tribe, recently seen in news belong to which of the following country?

- a) Brazil
- b) Malaysia
- c) New Zealand
- d) Australia

Q.75) Solution (a)

Option a

Key facts about the Guarani tribe:

- The Guarani were one of the first peoples contacted after Europeans arrived in South America around 500 years ago.
- In Brazil, there are today around 51,000 Guarani living in seven states, making them the country's most numerous tribes. Many others live in neighbouring Paraguay, Bolivia, and Argentina.
- These people in Brazil are divided into three groups: Kaiowá, Ñandeva and M'byá, of which the largest is the Kaiowá which means 'forest people'.
- They are deeply spiritual people.
- Most communities have a prayer house, and a religious leader, whose authority is based on prestige rather than formal power

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Context: Recently, protests by Guarani tribal people have erupted across Brazil as the country's Chamber of Deputies approved a new land bill that will restrict the new recognition of ancestral land of indigenous people.

Q.76) Consider the following statements about Biochar

- 1. Biochar is a carbon-rich material that is made from biomass through process known as pyrolysis.
- 2. Biochar is black, highly porous, lightweight and fine-grained.
- 3. Biochar production is a carbon-negative process.

Choose the correct statements:

- a) 1, 2 and 3
- b) 1 and 2
- c) 2 and 3
- d) 1 and 3

Q.76) Solution (a)

Statement Analysis

Statement 1	Statement 2	Statement 3		
Correct	Correct	Correct		
 Biochar is a carbon-rich material that is made from biomass through a thermochemical conversion process known as pyrolysis. Pyrolysis – In this process, organic materials, such as wood chips, leaf litter or dead plants, are burned in a container with very little/no oxygen. 	composition is carbon.	carbon-negative process, which means that it actually reduces CO2 in the atmosphere. • In the process, the unstable carbon is converted into a stable form of carbon that is then stored in the biochar.		

Context: While the biochar industry is still in its infancy, the technology offers a novel way to remove carbon from the atmosphere.

Q.77) Consider the following statements about Protein Nano-computers

- 1. Protein Nano-computers respond directly to stimuli and then produce a desired action unlike Traditional synthetic biology approach rely on the expression or suppression of proteins.
- 2. In Protein Nano-computers, the target protein responds to light and a drug called rapamycin by adjusting its orientation, or position in space.

Choose the incorrect statements:

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

Q.77) Solution (d)

Statement Analysis

Statement 1	Statement 2		
Correct	Correct		
	 Researchers engineered a target protein by integrating 2 sensor domains, or areas that respond to stimuli. In this case, the target protein responds to light and a drug called rapamycin by adjusting its orientation, or position in space. To test their design, the team introduced their engineered protein into live cells in culture. By exposing the cultured cells to the stimuli, they used equipment to measure changes in cellular orientation after cells were exposed to the sensor domains' stimuli. Previously, their nano-computing agent required two inputs to produce one output. Now, there are two possible outputs and the output depends on which order the inputs are received. If rapamycin is detected first, followed by light, the cell will adopt one angle of cell orientation, but if the stimuli are received in a reverse order, then the cell adopts a different orientation angle. This experimental proof-of-concept opens the door for the development of more complex nano-computing agents. 		
	 Theoretically, the more inputs you embed into a nano- computing agent, the more potential outcomes that could result from different combinations. 		

Context: What are protein nano-computers? - An article in The Hindu

Q.78) Consider the following statements about Strategic Petroleum Reserves (SPR) in India

- 1. Underground rock caverns are developed through excavation whereas salt caverns are developed by the process of solution mining.
- 2. Oil Absorbency is high in rock cavern based reserves compared to salt based cavern reserves.
- 3. Currently, India has 3 strategic oil storage facilities at Mangaluru, Padur and Visakhapatnam.

Choose the incorrect statements:

a) 1 only

- b) 2 only
- c) 3 only
- d) None

Q.78) Solution (d)

Statement Analysis

Statement 1	Statement 2	Statement 3			
Correct	Correct	Correct			
Rock based cavern	Salt based Cavern Reserves	Currently, India has 3 strategic oil			
Reserves	 Developed through solution 	storage facilities at			
	mining (pumping water into	Mangaluru - Karnataka			
• Developed through	geological formations with large	Padur - Karnataka			
Excavation	salt deposits to dissolve the	Visakhapatnam - Andhra Pradesh			
• Complex, Slow and	salt).	India is also in the process of			
High Cost.	Simple, Fast and Cost effective.	expanding its SPR capacity at two			
High Oil Absorbency	 Low Oil absorbency 	locations			
compare to Salt based		Chandikhol – Odisha			
method.		Padur – Karnataka			

Context: A Govt-owned engineering firm is studying whether petroleum reserves can be developed in Rajasthan's salt caverns.

Q.79) Consider the following statements about Adverse Possession

- 1. It is a legal concept that allows a person who has unlawfully occupied someone else's land for a certain period of time to claim legal ownership of that land.
- 2. In India, adverse possession has been a part of the legal framework and is rooted in the idea that land must not be left vacant and tobe put to judicious use.
- 3. To claim adverse possession, the occupier must prove that they have been in continuous, uninterrupted possession of the land for at least 24 years.

Choose the correct statements:

- a) 1 and 2
- b) 2 and 3
- c) 1, 2 and 3
- d) 1 and 3

Q.79) Solution (a)

Statement Analysis

St	tatement 1 Statement 2		Statement 3				
Correct Correct		rrect	In	correct			
•	It is a legal concept that	•	In India, adverse possession has been a	•	То	claim	adverse
	allows a person who has		part of the legal framework for a long		posse	ession, th	ne occupier
	unlawfully occupied		time and is rooted in the idea that land		must	prove	that they

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- someone else's land for a certain period of time to claim legal ownership of that land.
- The claimant, or disseisor, must demonstrate that several criteria have been met before the court will allow their claim.
- must not be left vacant and instead be put to judicious use.
- The law of Adverse Possession in India is governed by the principle of The Limitation Law of 1963.
- According to the Indian legal system, if a property owner fails to make a claim towards their property for 12 years, and the same tenant continues to occupy the property for 12 years, the ownership rights to the property is transferred to the tenant

have been in continuous, uninterrupted possession of the land for at least 12 years and that their possession was open, notorious, and hostile to the true owner.

Context: The Law Commission of India recenly recommended against enlarging the period of limitation provided under Articles 64, 65, 111, or 112 of the Limitation Act, 1963, which encapsulates the law on adverse possession.

Q.80) TP Rajendran Committee, recently seen in news is related to?

- a) Reviewing the criteria's to avail the benefits under Priority Sector lending
- b) Reviewing to the objections of industry on the ban of harmful pesticides
- c) Recommendation on Public Sector Banking Reforms in India
- d) Recommendation on Technological upgradation of MSMEs

Q.80) Solution (b)

Option b

Correct

TP Rajendran Committee

- Rajendran said that all chemicals and pesticides including the toothpaste we use is harmful for human health.
- What matters is the dosage, the formulation composition and the way humans have been asked to use the product.
- One cannot simply say that all pesticides are harmful and all pesticides are to be banned based on hearsay.
- What is important here is what Indian medical records say on the harm that a particular pesticide has done to human beings or to those who are exposed to it over a reasonable period of time.
- He said monocrotophos, has been in use in India for the past 30 or 40 years and there is absolutely no data provided by agencies to claim that there has been any adverse health impact due to their use.
- All pesticides have a label in them specifying good agriculture practices, with right dosage, time of application, precautions to be taken and so on.
- If somebody violates that, it is that individual's problem and not a national or a government issue.
- Govt notifies draft ban on 27 pesticides and gives 45 days for public feedback.
- It also forms another panel under T P Rajendran.

Context: It was in news.

Q.81) Consider the following statements about Bitumen

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- 1. It is a dense, highly viscous, petroleum-based hydrocarbon.
- 2. It is obtained as a residue of the distillation of crude oil.
- 3. It is commonly used to waterproof boats and other marine vessels.

Choose the incorrect statements:

- a) 1 only
- b) 2 only
- c) None
- d) 3 only

Q.81) Solution (c)

Statement Analysis

Statement 1	Statement 2	Statement 3	
Correct	Correct	Correct	
• It is a dense, highly viscous,	It is found in deposits such as	Uses:	
petroleum-based hydrocarbon.	oil sands and pitch	Bitumen is known for its	
	lakes(natural bitumen) or is	waterproofing and adhesive	
Composition:	obtained as a residue of the	properties and is commonly	
 It owes its density and viscosity 	distillation of crude oil.	used in the construction	
to its chemical composition—	• At the temperatures	industry, notably for roads	
mainly large hydrocarbon	normally encountered in	and highways.	
molecules known as	natural deposits, bitumen	• It is commonly used to	
asphaltenes and resins, which	will not flow. In order to be	waterproof boats and other	
are present in lighter oils but	moved through a pipe, it	marine vessels.	
are highly concentrated in	must be heated and, in some	It is also used by companies	
bitumen.	cases, diluted with a lighter	that create and manufacture	
In addition, bitumen frequently	oil.	roofing products.	
has a high content of metals,	• Bitumen can deform	It is used for sealing and	
such as nickel and vanadium,	permanently under heavy	insulating purposes in	
and nonmetallic inorganic	loads. Continued stress on	various building materials	
elements, such as nitrogen,	the material can result in	such as carpet tile backing	
oxygen, and sulfur.	cracking.	and paint.	

Context: Goa Power Minister recently said that bitumen used in road construction is a major cause of pollution.

Q.82) Consider the following statements about District Legal Services Authority

- 1. It is formed under Legal Services Authorities Act, 1987 to provide free legal aid and services to the weaker sections of the society.
- 2. It is a body that shall be constituted by the State Government in consultation with the Chief Justice of the High Court.
- 3. The Legal Services Authorities Act, 1987 provides that a District Authority requires the district judge as its chairman.

Choose the correct statements:

- a) 1, 2 and 3
- b) 1 and 3
- c) 1 and 2
- d) 2 and 3

Q.82) Solution (a)

Statement Analysis

Statement 1	Statement 2	Statement 3	
Correct	Correct	Correct	
 It is formed under Legal Services Authorities Act, 1987 to provide free legal aid and services to the weaker sections of this society to make sure that opportunities for securing justice are not denied to any citizen because of economic or other disabilities. It is a statutory body organized at the district level to provide effective monitoring of legal aid programmes and their composition. Legal Services Authorities are statutory bodies that are formed or constituted in the various states of India by the Legal Services Authorities Act, 1987. 	It is a body that shall be constituted by the State Government in consultation with the Chief Justice of the High Court.		

Context: Recently, under the Department of Justice's (Ministry of Law and Justice) Nyaya Bandhu, Pro Bono Club, ICFAI Law School, The ICFAI University, Tripura, in association with District Legal Services Authority West Tripura, organized a Door-to-Door Legal Aid Campaign.

Q.83) Consider the following statements

Statement - I

Inheritance rights of tribal women is neither covered under the Hindu Succession Act, 1956 nor under the Indian Succession Act, 1925.

Statement - II

The Scheduled Tribes of India are governed by customary laws in matters of inheritance, marriage and succession.

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

Q.83) Solution (a)

Option a

Correct

Tribal inheritance Laws

- Inheritance rights of tribal women is neither covered under the Hindu Succession Act, 1956 nor under the Indian Succession Act, 1925.
- The Scheduled Tribes of India are governed by customary laws in matters of inheritance, marriage and succession.
- The customary tribal laws continue to discriminate against tribal women in the matter of succession.
- Hindu Succession Act, 1956 explicitly exempts tribes under section 2(2) of the act.
- Similarly, the Hindu Adoptions and Maintenance Act, 1956 and the Hindu Marriage Act, 1955 are also not applicable to the STs, unless extended by the central government or otherwise directed.
- The Supreme Court has directed the Centre to examine the issue and consider amending the provisions of the Hindu Succession Act so as to make it applicable to the members of the Scheduled Tribes.

Context: Union govt. considering equal property rights to Scheduled Tribe women

Q.84) Consider the following statements about Trimbakeshwar Temple

- 1. It was constructed by 3rd Peshwa Balaji Bajirao also known as Nana Saheb.
- 2. The entire temple is built with black stone.
- 3. The Jyotirlinga here has three faces embodying Brahma, Vishnu, and Shiva.

How many of the statements given above are correct?

- a) Only One
- b) Only Two
- c) All Three
- d) None

Q.84) Solution (c)

Option c

Correct

- Location Shri Trimbakeshwar Temple is located in Nashik City, Maharastra.
- It is located near the mountain named Brahamagiri from which the river Godavari flows.
- There are 3 hills surrounding this temple Brahmagiri, Nilagiri and Kalagiri.

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- History It was constructed by 3rd Peshwa Balaji Bajirao also known as Nana Saheb, in the mid-18th century (1740-1760).
- Special features The entire temple is built with black stone.
- Trimbakeshwar Jyotirlinga is only one of the 12 jyotirlingas in India.
- Trimbakeshwara It not only honor Lord Shiva but the other two gods in the Holy Trinity Lord Vishnu and Lord Brahma as well.
- They all exist within the hollow space within the Shivalinga and hence the name Trimbakeshwara (3 Lords).
- They are covered by a jewelled crown that is believed to date to the era of the Pandavas.
- Jyotirlinga means column or pillar of light.
- The stambha symbol represents that there is no beginning or end.

Context: Shri Trimbakeshwar temple in Maharastra witnessed communal tensions for the past 6 months.

Q.85) Which of the following countries have been at loggerheads over the sharing of River Helmand?

- a) Myanmar and China
- b) Armenia and Azerbaijan
- c) Afghanistan and Iran
- d) Laos and Cambodia

Q.85) Solution (c)

Option c

Correct

River Helmand

- The Helmand is the Afghanistan's longest river.
- It originates near Kabul in the western Hindu Kush Mountain range.
- It flows in a southwesterly direction through desert areas before emptying into Lake Hamun, which straddles the Afghanistan-Iran border.
- Lake Hamun It is the largest freshwater lake in Iran.
- Fed by the Helmand, it used to be one of the world's largest wetlands, straddling 4,000 sq.km between Iran and Afghanistan.
- But it has since dried up, experts blame on drought and the impact of dams and water controls.
- The lake is of great importance for the regional environment and economy.
- River Helmand is the primary watershed for the endorheic Sistan Basin.

Context: Afghanistan and Iran have been at loggerheads over the sharing of river water for over a century.

Q.86) Consider the following statements about International Covenant on Civil and Political Rights (ICCPR)

- 1. It is a multilateral treaty adopted by the United Nations General Assembly in 1966.
- 2. It is monitored by the United Nations Human Rights Committee.
- 3. The ICCPR is part of the International Bill of Human Rights.

How many of the statements given above are correct?

a) Only one

- b) Only two
- c) All Three
- d) None

Q.86) Solution (c)

Statement Analysis

Statement 1	Statement 2	Statement 3	
Correct	Correct	Correct	
It is a multilateral treaty adopted by the United Nations General Assembly (UNGA) in 1966.	 Monitored by the United Nations Human Rights Committee. The covenant commits its parties to respect the civil and political rights of individuals, including the right to life, freedom of religion, freedom of speech, freedom of assembly, electoral rights and rights to due process and a fair trial. 	• The ICCPR is part of the International Bill of Human Rights, along with the International Covenant on Economic, Social and Cultural Rights (ICESCR) and the Universal Declaration of Human Rights (UDHR).	

Context: Nathasha Edirisooriya, a Sri Lankan standup comic, was arrested under the International Covenant on Civil and Political Rights (ICCPR) Act.

Q.87) Consider the following statements

- 1. Fuel cell AIP generates power through the reverse electrolysis of oxygen and hydrogen
- 2. Unlike Fuel cell AIP the Sterling propulsion system uses diesel fuel and liquid oxygen.
- 3. Fuel cell-based AIP does not need air, but requires storage of highly inflammable hydrogen on board.

How many of the statements given above are correct?

- a) Only one
- b) Only two
- c) All Three
- d) None

Q.87) Solution (c)

Statement Analysis

Option c

Correct

- Fuel cell-based AIP generates power through the reverse electrolysis of oxygen and hydrogen which does not need air, but requires storage of highly inflammable hydrogen on board.
- Fuel cell AIP systems are associated with German submarines of Class 212A and Class 214, and will power the Project 75-I submarines too.
- The second type of AIP, based on the Stirling engine, is the first modern combat-ready system. It is a simple system that uses diesel fuel (typical for the submarine) and liquid oxygen, discharging the plant overboard at small and medium depths.

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- Although AIP, based on the Stirling engine lacks stealth, it has proved relatively good in a small area, shallow depths, complex hydrology and heavy traffic, which require a submarine's acoustic signature to be minimised.
- Other fuel cell AIPs include Russia's alkaline fuel cells and India's phosphoric-acid fuel cells.
- The Defence R&D Organisation's (DRDO's) AIP system relies on the innovative Phosphoric Acid Fuel Cell (PAFC) technology.
- This PAFC technology is more rugged, tolerant of fuel impurities, offers longer life and efficiency and is much safer, since it generates hydrogen on board, rather than requiring the storage of hazardous hydrogen.

Context: In the recently announced Project 75-I, The submarines, powered by air-independent propulsion (AIP) are planned to be built under a Rs 45,000 crore programme.

Q.88) Consider the following statements about TAPI Pipeline

- 1. It will transport natural gas from the Galkynysh Gas Field in Turkmenistan to Afghanistan, Pakistan and India.
- 2. The project is being funded by the Asian Infrastructure Investment Bank (AIIB).
- 3. Recently India and Turkmenistan signed a Joint Implementation Plan (JIP) to speed up the project.

Choose the incorrect statements:

- a) 2 only
- b) 3 only
- c) 2 and 3
- d) None

Q.88) Solution (c)

Statement Analysis

Statement 1	Statement 2	Statement 3
Correct	Incorrect	Incorrect
 It is an 1,814-kilometre pipeline that aims to transport 33 billion cubic metres of gas from Turkmenistan to Afghanistan, Pakistan and finally, India. It is also called the 'Peace Pipeline'. Route: It will start from the Galkynysh gas field in Turkmenistan. It will then pass through Afghanistan and Pakistan to finally reach the Indian 	The TAPI project is being funded by the Asian Development Bank (ADB), which is also acting as transaction adviser for the development.	To speed up work on Turkmenistan, Afghanistan, Pakistan, and India (TAPI) gas pipeline project and finish the feasibility study as soon as possible, Pakistan and Turkmenistan recently signed a Joint Implementation Plan (JIP).

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town of Fazilka(near the	
Indo-Pak border).	

Context: To speed up work on Turkmenistan, Afghanistan, Pakistan, and India (TAPI) gas pipeline project and finish the feasibility study as soon as possible, Pakistan and Turkmenistan recently signed a Joint Implementation Plan (JIP).

Q.89) Consider the following statements about Agni Prime Missile

- 1. It is a long-range ballistic missile that will have a range of 3000 km to 5000 km.
- 2. It is a surface to a surface missile that can carry a payload of around 1,000 Kg or a nuclear warhead.

Choose the correct statements:

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

Q.89) Solution (b)

Statement Analysis

Statement 1	Statement 2
Incorrect	Correct
 It is a short-range ballistic missile that will have a range of 1000 km to 1500 km. It is a new-generation nuclear capable ballistic missile. The missile incorporates advanced features such as a new propulsion system and composite rocket motor casings. 	 It is a surface to a surface missile that can carry a payload of around 1,000 Kg or a nuclear warhead. It is also a canister launch missile like country's first Intercontinental Ballistic Missile(ICBM), Agni-V, which is in the process of induction. By SFC. Canister launch missiles with the warhead already fitted in the missile gives the command operational flexibility to store it for a longer period. This makes it easier for the missile to be swiftly moved
	using rails, trucks or any other vehicles and can be fired from any platform.

Context: Recently, New Generation Ballistic Missile 'Agni Prime' was successfully flight-tested by Defence Research and Development Organisation (DRDO) from Dr APJ Abdul Kalam Island.

Q.90) Kakhovka Dam, recently seen in news is loacted on which of the following river?

- a) River Helmand
- b) River Dnieper
- c) River Danube
- d) River Mekong

Q.90) Solution (b)

Option b

Correct

- The Kakhovka Dam is located on the Dnieper River.
- The primary purposes of the dam are hydroelectric power generation, irrigation and navigation.
- The Dnieper River is one of the major transboundary rivers of Europe rising in the Valdai Hills near Smolensk, Russia and flows through Belarus and Ukraine before draining into Black Sea.
- Dnieper River is the longest river of Ukraine and Belarus and the 4th longest river in Europe after the Volga, Danube and Ural rivers.
- Recently Kakhovka Dam was collapsed in the Ukraine Russia war with each side blaming each other for the cause of the collapse of the dam.
- The collapse of the dam could increase the global wheat prices since Ukraine being one of the largest exporters of wheat in the world.

Context: Recently Kakhovka Dam was collapsed in the Ukraine Russia war with each side blaming each other for the cause of the collapse of the dam.

Q.91) Consider the following statements

- 1. The Neolithic stage of development was attained during the Pliocene Epoch.
- 2. The Neolothic age was characterized by stone tools shaped by polishing or grinding.
- 3. Burzahom, Chiron and Edakkal caves are some important Neolithic sites in India.

How many of the statements given above are correct?

- a) Only one
- b) Only two
- c) All Three
- d) None

Q.91) Solution (b)

Statement Analysis

Statement 1	Statement 2	Statement 3
Incorrect	Correct	Correct
Neolithic, also called New	The Neolithic followed the	Some of the important Neolithic sites
Stone Age, is the final stage	Palaeolithic Period, or the age of	in India include Mehrgarh, the oldest
of cultural evolution or	chipped-stone tools, and preceded	Neolithic site in the province of
technological development	the Bronze Age, or the early period	Pakistan called Baluchistan,
among prehistoric humans.	of metal tools.	Burzahom in Kashmir, Chiron in Bihar
The Neolithic stage of	The Neolithic Revolution started in	and Uttar in Andhra Pradesh, Edakkal
development was attained	the Fertile Crescent, a region of the	caves in Kerala.
during the Holocene Epoch	Middle East where humans first took	
(the last 11,700 years of	up farming.	
Earth's history).	The term Neolithic is most	
	frequently used in connection with	
	agriculture, which is the time when	
	cereal cultivation was introduced.	
	Features:	

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	It was characterized by stone tools		
	shaped by polishing or grinding,		
	dependence on domesticated plants		
	or animals, settlement in permanent		

crafts as pottery and weaving. The houses were built of mud and reed and rectangular or circular shapes.

villages, and the appearance of such

Context: A celt, belonging to the neolithic period, was recently discovered in Poothinatham village in Tamil Nadu.

Q.92) Consider the following statements about Sagar Samriddhi

- 1. It is an online dredging monitoring system which helps to accelerate 'Waste to Wealth' initiative of the Ministry of shipping.
- 2. Sagar Samriddhi is developed by National Technology Centre for Ports, Waterways and Coasts (NTCPWC).

Choose the incorrect statements:

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

Q.92) Solution (d)

Statement Analysis

Statement 1	Statement 2
Correct	Correct
 It is an online dredging monitoring system which helps to accelerate 'Waste to Wealth' initiative of the Ministry of shipping. Sagar Samriddhi will bring in synergy among multiple input reports and produces real time dredging report. 	 Sagar Samriddhi is developed by National Technology Centre for Ports, Waterways and Coasts (NTCPWC). Sagar Samriddhi will bring in more transparency and efficiency in the overall dredging system. Sagar Samriddhi is in conducive to the mantra 'ZERO DEFECT and ZERO EFFECT' said by Prime Minister Narendra Modi. National Technology Centre for Ports, Waterways and Coasts (NTCPWC)
	 NTCPWC is a technological arm of Ministry of Ports, Shipping & Waterways (MoPSW). NTCPWC was established under the Sagarmala Programme of MoPSW.

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- The aim of the centre is to enable research & development for the marine sector, enabling solutions towards achieving the ultimate goal of building a robust marine industry in the country.
- This state-of-the-art centre has world class capabilities for undertaking the 2D & 3D investigations of research.

Context: Recently Union Minister of Ports, Shipping & Waterways (MoPSW) launched 'Sagar Samriddhi'.

Q.93) Consider the following pairs

Lunar Missions	Countries	
Danuri Mission	Russia	
Luna 25	Japan	
Hakuto R Mission	South Korea	

How many of the pairs given above are correct?

- a) Only one
- b) Only two
- c) All Three
- d) None

Q.93) Solution (d)

Option d
Correct

Recent lunar missions in 2022 and planned missions



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Context: Recently the china sent its first civilian into space intensifying the moon race between USA and china.

Q.94) Consider the following statements with respect to Fish Meal.

- 1. Fish meal is a proteinaceous flour material containing a high level of protein and appreciable quantities of lipid and minerals.
- 2. Usage of fish waste in fish meal reduces water pollution and increases immunity in animals.

Choose the incorrect statements:

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

Q.94) Solution (d)

Statement Analysis

Statement 2 Statement 2	
Correct	Correct
 Fish meal is a proteinaceous flour material containing a high level of protein and appreciable quantities of lipids, essential amino acids, vitamins, essential minerals (such as phosphorus, calcium and iron) and other growth factors. Each year, around 20 million tonnes of raw material are being used to produce fishmeal and fish oil. About 70 % of fish and crustaceans produced in aquaculture are fed with protein-rich feed wherein fish meal act as key ingredient. 	

Context: Recently Department of Fisheries, Ministry of Fisheries, Animal Husbandry and Dairying organized a webinar on 'Sustainability of Fish Meal Industry and the Livelihoods of Fishermen'.

Q.95) Diego Garcia Island, recently seen in news is located in which of the following Ocean?

- a) Southern Ocean
- b) Atlantic Ocean
- c) Indian Ocean
- d) Arctic Ocean

Q.95) Solution (c)

Option c	
Correct	
Diego Garcia Island:	

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- It is a coral atoll, the largest and southernmost member of the Chagos Archipelago, in the central Indian Ocean.
- It is a part of the British Indian Ocean Territory.
- It consists of a V-shaped sand-fringed cay and its lagoon is open at the north end.
- This island was discovered by the Portuguese in the early 16th century.

Context: Dozens of migrants have been stranded for months on Diego Garcia Island in the Indian Ocean after being rescued from their struggling fishing boat.

Q.96) Consider the following statements

- 1. Electrolysis is a chemical decomposition achieved by passing an electric current through a liquid or a solution that contains ions.
- 2. Electrolysis is used to extract and purify metals from their ores.
- 3. Green hydrogen is achieved through a process of electrolysis powered by renewable energies such as wind or solar.

How many of the statements given above are correct?

- a) Only one
- b) Only two
- c) All Three
- d) None

Q.96) Solution (c)

Statement Analysis

Statement 1	Statement 2	Statement 3
Correct	Correct	Correct
 Electrolysis is a chemical decomposition achieved by passing an electric current through a liquid or a solution that contains ions. Electrolysis requires an electrolytic cell that consists of positively and negatively charged electrodes submerged in a solution containing particles of the opposite charge. As the electric current passes through the solution, the negatively charged electrode (cathode) attracts the positively charged ions, while the positively charged electrode (anode) attracts the negatively charged ions. Depending on the solution and the materials in use, the process can release gases, form solids, or even leave behind a completely new solution. 	Electrolysis has many uses in the commercial sector, in particular to extract and purify metals from their ores.	Green hydrogen is achieved through a process of electrolysis powered by renewable energies such as wind or solar.

Context: It was in news

Q.97) Consider the following statements about Lightning

- 1. Lightning is recognized by the World Meteorological Organisation as an essential climate variable.
- 2. Lightning produces nitrogen oxides, which are strong greenhouse gases that trap earth's outgoing heat.

Choose the incorrect statements:

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

Q.97) Solution (d)

Statement Analysis

Statement 1	Statement 2			
Correct	Correct			
 Lightning is an electrical discharge caused by imbalances between storm clouds and the ground, or 	 Lightning also produces nitrogen oxides, which are strong greenhouse gases that trap earth's outgoing heat and retain it in the atmosphere, altering climate and weather patterns. 			
within the clouds themselves. Most lightning occurs within the clouds. World Meteorological Organisation recognises lightning as an essential climate variable that critically contributes to the characterisation of the earth's climate.	Lightning is the main precursor of natural wildfires. Long-Continuing-Currents or LCC is continuing electrical currents in lightning flowing for more than some tens of milliseconds which are likely to produce wildfires. According to a recent study estimated increase of LCC lightning over land by 47% indicates a higher risk of lightning ignited wildfires in the future. Increase in lightning rate and decreasing LCC rate is leading to forest fire and this concept is specific to few regions like Canada and doesn't follow across the earth. As global warming increases the earth's surface temperature, lightning activity is also predicted to increase.			

Context: In recent times large scale wildfires in Canada are mainly caused due to lightning.

Q.98) Consider the following statements about Ram Prasad Bismil

- 1. He wrote patriotic verses in Hindi and Urdu under pen names like 'Agyat' and 'Desh Priya'.
- 2. Bismil started a revolutionary organisation called Matrivedi (The Altar of the Motherland).
- 3. He was invovled in Kakori Conspiracy, 1925.

How many of the statements given above are correct?

- a) Only one
- b) Only two
- c) All Three
- d) None

Q.98) Solution (b)

Statement Analysis

Statement 1	Statement 2	Statement 3	
Incorrect Correct		Correct	
 Ram Prasad Bismil was born on June 11, 1897 in the United Provinces (now Uttar Pradesh) Shahjahanpur district. He joined the Arya Samaj and became a prolific writer and poet. He wrote patriotic verses in Hindi and Urdu under pen names like 'Agyat', 'Ram', and the one that is most known 'Bismil'. He wrote the poem Mera Janm (My Birth), venting out his anger over death sentence handed out to Arya Samaj missionary Bhai Parmanand. 	revolutionary organisation called Matrivedi (The Altar of the Motherland) and joined forces with fellow revolutionary Genda Lal Dixit. Dixit was well-connected with dacoits of the state and wanted to utilise them in the armed struggle against the British. In 1918, Bismil wrote the famous poem, Mainpuri ki Pratigya. In order to collect funds for their parties, he carried out	 from Shahjahanpur to Lucknow. It was carrying money that had been collected at various railway stations and was to be deposited in Lucknow. In this planned robbery, carried out to fund the activities of the HSRA, Bismil, Khan and over 10 other revolutionaries stopped the train and fled with the cash they found in it. Within a month of the robbery, many members of the HSRA were arrested. 	

Context: 126th birth anniversary of Ram Prasad Bismil, a revered symbol of patriotism and Hindu-Muslim unity, was commemorated recently.

Q.99) Consider the following statements about New Development Bank (NDB)

- 1. The Bank is governed by a Board of Governors made up of the finance ministers of the five BRICS countries, and a Board of Directors.
- 2. No new members other than the BRICS countries can become a member of NDB.

Choose the correct statements:

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

Q.99) Solution (a)

Statement Analysis

Statement 1			Statement 2	
Correct			correct	
•	NDB, formerly referred to as the BRICS Development Bank, is a multilateral development bank established by the BRICS countries (Brazil, Russia, India, China and South Africa). Objective: Financing infrastructure and sustainable development projects in BRICS and other emerging economies and developing	•	While new members can join the NDB, the five BRICS countries will retain a minimum of 55% of total shares.	
	countries.	•	The NDB's management includes a presidency which	
G	overnance Structure:		rotates among BRICS	
•	The Bank is governed by a Board of Governors made up of the finance ministers of the five BRICS countries, and a Board of Directors.		members, and four vice presidents who are selected from the remaining BRICS	
•	Voting power within the Board is based on each country's shares in the bank.		countries.	

Context: Honduras President recently requested the country's admission to the BRICS-led New Development Bank (NDB).

Q.100) JATAN, often seen in the news, is associated with which of the following Ministry?

- a) Minister for Culture and Tourism
- b) Ministry of Corporate Affairs
- c) Ministry of Commerce and Industry
- d) Ministry of Micro, Small and Medium Enterprises

Q.100) Solution (a)

Option a

Correct

- Jatan Virtual Museum Builder is the software being used for digitizing records of antiquities in the various collections that are displayed in a common portal for the public view.
- Jatan can create 3D virtual galleries and provide public access through web, mobile or touch screen kiosks.
- The Digitization Cell of National Museum is the nodal unit for Digitization of Museum Objects in JATAN platform.
- Digitisation process involves 3D scanning which is carried out by Ministry of Electronics and Information Technology (MeitY).
- The 3D digitisation would be done using the JATAN virtual museum builder software which has been
 designed and developed by Human Centres Design and Computing Group, Centre for Development of
 Smart Computing, Pune.

Context: Recently Minister for Culture and Tourism launched Museums of India mobile application as a part of JATAN project.

Q.101) Consider the following statements about Countervailing Duties (CVDs)

1. CVDs are tariffs levied on imported goods to offset subsidies made to producers of these goods in the exporting country.

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2. Countervailing Duties is the only trade remedy that is allowed under World Trade Organisation (WTO) rules.

Choose the correct statements:

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

Q.101) Solution (a)

Statement Analysis

Statement 1	Statement 2		
Correct	Incorrect		
 Countervailing Duties (CVDs) are tariffs levied on imported goods to offset subsidies made to producers of these goods in the exporting country. Countervailing measures are put in place to offset imports being sold at unfair prices due to government subsidies in their country of origin. 	trade remedies that are allowed under World Trade Organisation (WTO) rules.		

Context: Recently UK government removed the counter duty for Stainless steel bars and rods imported from India.

Q.102) Consider the following statements about Dugdh Sankalan Sathi Mobile App

- 1. It aims to improve the quality of milk by fostering transparency among stakeholders.
- 2. It streamlines operations at the grassroots village level, including Milk Cooperative Societies.
- 3. The app was launched by Ministry of Heavy Industries.

How many of the statements given above are correct?

- a) Only one
- b) Only two
- c) All Three
- d) None

Q.102) Solution (c)

Statement Analysis

Statement 1	Statement 2	Statement 3
Correct	Correct	Correct

- Dugdh Sankalan Sathi
 Mobile App aims to
 improve the quality
 of milk, foster
 transparency among
 stakeholders.
- lt will bring transparency, efficiency and empowerment to all stakeholders involved in the milk collection process, ultimately benefiting the milk producers and contributing to the growth of the dairy sector.
- It also Streamline operations at the grassroots village level, including Milk Cooperative Societies.
- The app is designed and developed by Rajasthan Electronics & Instruments Limited (REIL).
- REIL is a "Mini Ratna" Central Public Sector Enterprises under the Ministry of Heavy Industries.
- It digitize the process and facilitate Direct Beneficiary Transfer to milk producers".

- Ministry of Heavy Industries recently launched Dugdh Sankalan Sathi Mobile App to Transform Indian Dairy Industries.
 Key features and benefits of the app includes
- Increased transparency among stakeholders,
- Online monitoring of daily milk poured at Milk Cooperative Societies,
- Real-time milk price updates from the cloud server, ensuring transparency and eliminating human errors,
- Direct beneficiary transfers of milk payment and government subsidies to the milk producers' bank accounts through the app,
- Push notifications for milk collection to the milk producers' app and
- Multilingual app with support for English,
 Hindi, Punjabi, Telugu, and more.

Context: Ministry of Heavy Industries recently launched Dugdh Sankalan Sathi Mobile App to Transform Indian Dairy Industries.

Q.103) Consider the following statements about Sea slaters

- 1. Sea Slater is a fast-running semi-terrestrial isopod.
- 2. It is native to the Western Pacific Ocean and found in the coastal regions of Tamil Nadu.
- 3. They mostly eat dead plant and fungal matter and act as natural recyclers.

How many of the statements given above are correct?

- a) Only one
- b) Only two
- c) Only three
- d) None

Q.103) Solution (b)

Statement Analysis

Option b

Correct

- Ligia oceanica is a fast-running semi-terrestrial isopod commonly known as the Sea Slater.
- Isopod is an order of crustaceans that includes woodlice and their relatives that live in the sea, in fresh water, or on land.
- Sea slaters is a species of woodlouse.
- It is native to the Northeast Atlantic from Norway to Morocco and the western Baltic.

- It is found on rocky shorelines, wharf pilings and harbor areas where it inhabits the borders of the land and sea.
- They mostly eat dead plant and fungal matter and act as important natural recyclers, just like worms.
- While sea slaters are not a threatened or vulnerable species, they act as a natural recycler in local ecosystem.
- They can also be an important source of food for many birds that live on the seashore.
- The sea slaters turned darker when confronted with a point-source light but diffused light confused them and caused them to become lighter, making them easier for predators to spot.

Context: In a new study published in Proceedings of the Royal Society B, shows that diffused pollution at night can confuse Sea slaters, rendering their camouflage useless.

Q.104) Consider the following statements about Microneedles

- 1. Microneedles belong to Transdermal drug delivery system.
- 2. Microneedles typically measure between 0.1 to 1 mm in length.
- 3. Microneedle patches can help inject insulin just below the skin surface without pricking deep like normal syringes.

How many of the statements given above are incorrect?

- a) Only one
- b) Only two
- c) All Three
- d) None

Q. 104) Solution (d)

Statement Analysis

Option d

Correct

- Microneedles belong to Transdermal drug delivery system (TDD).
- TDD is a painless method of delivering drugs systemically by applying a drug formulation onto intact and healthy skin.
- Microneedles are manufactured using complex procedures, like photolithography, that require clean rooms, and are time-consuming which limits the mass production.
- Single-step drop-casting is a simple process to produce Microneedle without needing clean room facilities, and sophisticated instrumentation.
- Microneedles typically measure between 0.1 to 1 mm in length.
- It can precisely target the drug upon entry into the stratum corneum.
- It address certain key challenges within transdermal delivery such as collapsing veins with a repetitive injection, needle phobia, sustained delivery, etc.
- Microneedle patches can help inject insulin just below the skin surface without pricking deep like normal syringes.

Context: Recently Researchers at the Indian Institute of Science (IISc.) and the Institute for Stem Cell Science and Regenerative Medicine (inStem) have found a novel method to produce microneedles.

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Q. 105) Drip Pricing, often seen in the news, refers to?

- a) It is a technique in which firms advertise only part of a product's price and reveal other charges later at final billing.
- b) It is a revenue management pricing strategy in which businesses set flexible prices for products or services based on current market demands.
- c) It is a price setting strategy that a firm can employ when launching a product or service for the first time.
- d) It is a microeconomic pricing strategy where identical or largely similar goods or services are sold at different prices by the same provider in different market segments.

Q. 105) Solution (a)

Option a

Correct

- Drip pricing is a pricing technique in which firms advertise only part of a product's price and reveal other charges later at final billing.
- Deceptive online patterns are a violation of the Consumer Protection Act.
- A robust self-regulatory mechanism for the larger framework on online deceptive patterns is the need of the hour.
- Recently Advertising Standards Council of India (ASCI) released the guidelines on price Pricing Key highlights of the guidelines
 - The guidelines state that "quoted prices" in advertisements and e-commerce sites must include non-optional taxes, duties, fees and charges that apply to all buyers.
 - When an ad or an element in an ad directly or indirectly implies one outcome of the consumer's action but instead serves up another, it is misleading.
 - Implying that quantities of a product or service are "more limited than they are" to create a false sense of urgency will be considered misleading.
 - Guidelines is expected to create communication and systems that respect user autonomy, improve transparency and encourage well-informed choices.
 - It will play a crucial role in fostering a more ethical and trustworthy advertising ecosystem and protecting consumer trust.
 - The Advertising Standards Council of India (ASCI) is a voluntary self-regulatory organization of the advertising industry in India.

Context: Recently Advertising Standards Council of India (ASCI) released the guidelines on price Pricing to check 'dark patterns' such as non-declaration of the final price upfront or creating a sense of false urgency to woo consumers.

Q. 106) Consider the following statements about Gandhi Peace Prize

- 1. It is a biennial award instituted by the Government of India in 1965.
- 2. It was instituted on the occasion of the 100th Birth Anniversary of Mahatma Gandhi as a tribute to the ideals espoused by Mahatma Gandhi.
- 3. The prize can be given to institutions, individuals and organisations.

How many of the statements given above are correct?

- a) Only one
- b) Only two
- c) All Three
- d) None

Q. 106) Solution (a)

Statement Analysis

Option a

Correct

- It is an annual award instituted by the Government of India in 1995,
- It was instituted on the occasion of the 125th Birth Anniversary of Mahatma Gandhi as a tribute to the ideals espoused by Mahatma Gandhi.
- The award is open to all persons regardless of nationality, race, language, caste, creed or gender.
- The award carries an amount of 1 crore, a citation, a plaque and an exquisite traditional handicraft/handloom item.
- The prize can be given to institutions, individuals and organisations.
- Recent awardees include Sultan Qaboos Bin Said Al Said, Oman (2019) and Bangabandhu Sheikh Mujibur Rahman (2020), Bangladesh.

Context: The Gandhi Peace Prize for 2021 will be conferred on Gita Press, Gorakhpur.

Q. 107) It is India's second-largest mangrove ecosystem after the Sunderbans. This National Park is a network of creeks and canals which are inundated with waters from rivers Dhamra and Patasala, forming a unique ecosystem. It has one of the largest populations of endangered saltwater crocodiles in India.

The above description is related to which of the following National Park?

- a) Galathea National Park
- b) Bhitarkanika National Park
- c) Gulf of Mannar Marine National Park
- d) Rani Jhansi Marine National Park

Q. 107) Solution (b)

Option b

Correct

Bhitarkanika National Park:

- Location: It is located in Kendrapara district in the state of Odisha.
- It is India's second-largest mangrove ecosystem after the Sunderbans.
- It is a 145 Sq. km large national park which was designated on 16th September 1998 and obtained the status of a Ramsar site in August 2002,e., the second Ramsar site of the State after the Chilika Lake.
- This National Park is a network of creeks and canals which are inundated with waters from rivers Brahmani, Baitarani, Dhamra and Patasala, forming a unique ecosystem.

Flora: Mangrove species, casuarinas, and grasses like the indigo bush.

Fauna:

- Bhitarkanika has one of the largest populations of endangered saltwater crocodiles in India.
- The Gahirmatha Beach, which forms the boundary of the park in the east, is the largest colony of the Olive Ridley Sea Turtles.
- Other mammals include monkeys, jackals, common langurs, otter, sambar deer, jungle cats, fox, Mongoose, wolfs, fishing cats, hyenas, etc.

Context: A 10-year-old boy was allegedly killed recently following an attack by a crocodile sparking fresh bouts of man-animal conflict in areas in the close vicinity of Bhitarkanika National Park.

Q. 108) Consider the following statements about International Fund for Agricultural Development (IFAD)

- 1. It is an international financial institution and a specialised agency of the United Nations.
- 2. It brings out the Rural Development Report every year.

Choose the incorrect statements:

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

Q. 108) Solution (d)

Statement Analysis

Statement 1	Statement 2
Correct	Correct
• IFAD is an international financial institution and specialized United Nations agency working in the field	Objectives: To increase the productive capacity of
of poverty eradication in the rural areas of developing	poor people.
countries providing grants and loans with low interest for allied projects.	 To increase benefits for them from market participation.
• It works with marginalized and vulnerable groups such as farmers with small holdings, foresters, Pastoralists, Fishermen and small scale entrepreneurs by giving	 To strengthen the environmental sustainability & climate resilience of their economic activities.
them disaster preparedness, access to weather information, technology transfer and social learning.	Reports: • It brings out the Rural Development Report every year.

Context: The International Fund of Agricultural Development (IFAD) recently lauded India for reviving focus on millets and exporting 1.8 million tonnes of wheat to 18 countries that faced an acute shortage of food last year.

Q.109) Consider the following statements about Drugs Technical Advisory Board

- 1. It is the highest statutory decision-making body on technical matters related to drugs in India.
- 2. It functions under Ministry of Health and Family Welfare.

Choose the correct statements:

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

Q.109) Solution (c)

Statement Analysis

Statement 1	Statement 2
Correct	Correct
It is the highest statutory decision-making body on technical matters related to drugs in India.	 Nodal Ministry: Ministry of Health and Family Welfare. Function: It advises the Central Government and the
 It is established as per the Drugs and Cosmetics Act, 1940. 	State Governments on technical matters arising out of the administration of the Drugs and Cosmetics Act, of
• It is part of the Central Drugs Standard Control Organization (CDSCO).	1940 and to carry out the other functions assigned to it by this Act.

Context: Recently, the Drugs Technical Advisory Board (DTAB) recommended banning the manufacture, sale and distribution of two non-steroid anti-inflammatory drugs (NSAIDs) Ketoprofen and Aceclofenac.

Q.110) Consider the following statements

- 1. United Nations Convention to Combat Desertification (UNCCD) is the only legally binding framework set up to address desertification and the effects of drought.
- 2. UN Environment Assembly is the world's highest level decision making body on the environment.
- 3. Great Green Wall and Changwon are the initiatives of United Nations Convention to Combat Desertification.

How many of the statements given above are correct?

- a) Only one
- b) Only two
- c) All Three
- d) None

Q.110) Solution (c)

Statement Analysis

Statement 1	Statement 2	Statement 3
Correct	Correct	Correct
The United Nations Convention to Combat Desertification (UNCCD) was established in 1994 to protect and restore our land	Environment Programme. • It is the world's highest-level	The flagship initiatives of UNCCD includes • Great Green Wall Initiative

- and ensure a safer, just, and more sustainable future.
- UNCCD promote practices that avoid, reduce and reverse land degradation and are the driving force behind Sustainable Development Goal 15 and Land Degradation Neutrality.
- UNCCD is the only legally binding framework set up to address desertification and the effects of drought.
- The Assembly is made up of the 193 UN Member States and convenes every two years to advance global environmental governance.
- It was created in June 2012, during the United Nations Conference on Sustainable Development, also referred to as RIO+20.
- Changwon Initiative
- International Drought Resilience Alliance
- Greening Drylands
 Partnership
- The Drought Initiative
- The Ankara Initiative

Context: On World Desertification Day (june 17 2023) United Nations Convention to Combat Desertification highlighted that granting equal land rights to women can reduce world hunger significantly.

Q.111) Consider the following about United Nations High Seas Treaty

- 1. It is a legally binding treaty to protect the world's oceans that lie outside national boundaries.
- 2. It aims to place 30% of the seas into protected areas by 2025.

Choose the correct statements:

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

Q. 111) Solution (a)

Statement Analysis

Statement 1 Statement 2 Correct Incorrect It is the first-ever treaty to protect the world's Highlights of the treaty: oceans that lie outside national boundaries. It aims to place 30% of the seas into protected It is also known as the 'Paris Agreement for the areas by 2030(a pledge made by countries at the UN biodiversity conference in 2022). Ocean.' It will provide a legal framework for It is a legally binding treaty that aims at establishing vast marine protected areas protecting, caring for, and ensuring the (MPAs) to protect against the loss of wildlife responsible use of the marine environment, and share out the genetic resources of the maintaining the integrity of ocean ecosystems, high seas. and conserving the inherent value of marine biological diversity. It also covers environmental assessments to The treaty is built on the legacy of the UN evaluate the potential damage of commercial Convention on the Law of the Sea (UNCLOS), activities, such as deep-sea mining. which is the last international agreement on The treaty aims at strengthening resilience and contains provisions based on the polluter-

ocean protection, signed 40 years ago in 1982. UNCLOS established an area called the high seas.

pays principle as well as mechanisms for disputes.

Context: The world's first international treaty to protect the high seas was recently adopted by the United Nations.

Q. 112) Which of the following countries border Mediterranean Sea?

- 1. Syria
- 2. Turkey
- 3. Spain
- 4. Tunisia
- 5. Morocco

Choose the correct code:

- a) 2, 3 and 5
- b) 1, 3, 4 and 5
- c) 1, 2 and 4
- d) All the above

Q. 112) Solution (d)



Context: Russia's Defence Ministry recently said that a Russian warship and cargo ship rescued 68 people overnight from a boat in the Mediterranean Sea.

Q. 113) Consider the following statements about Phonons

1. Phonons and electrons are the two main types of elementary particles in solids.

2. Phonons are essential particles in the phenomenon of superconductivity.

Choose the correct statements:

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

Q. 113) Solution (c)

Statement Analysis

Statement 1	Statement 2
Correct	Correct
Phonon is a unit of vibrational energy that arises	• It determine such things as the speed of
from oscillating atoms within a crystal.	sound within a material and how much heat
Each phonon is the collective vibration of around	it takes to change its temperature.
one quadrillion atoms.	• It is essential in the phenomenon of
A phonon is a definite discrete unit or quantum of	superconductivity.
vibrational mechanical energy just as a photon is a	Acoustic beam-splitter is a tiny device which
quantum of electromagnetic or light energy.	can be used to emit and detect individual
Phonons and electrons are the two main types of	phonons.
elementary particles or excitations in solids.	

Context: Recent study have found that phonons can be used to build quantum computers.

Q. 114) Consider the following statements about President's Rule

- 1. President's rule can be extended for a maximum period of three years with the approval of the Parliament, every six months.
- 2. A law made by the Parliament or president or any other specified authority continues to be operative even after the President's Rule.
- 3. Every resolution approving the proclamation of President's Rule or its continuation can be passed by either House of Parliament only by a simple majority.

How many of the statements given above are correct?

- a) Only one
- b) Only two
- c) All Three
- d) None

Q. 114) Solution (c)

Statement Analysis

Option c	
Correct	

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- Article 355 imposes a duty on the Centre to ensure that the government of every state is carried on in accordance with the provisions of the Constitution.
- The President's Rule can be proclaimed under Article 356 on two grounds one mentioned in Article 356 itself and another in Article 365.
- Article 356 empowers the President to issue a proclamation, if he is satisfied that a situation has arisen
 in which the government of a state cannot be carried on in accordance with the provisions of the
 Constitution.
- Article 365 says that whenever a state fails to comply with or to give effect to any direction from the Centre, it will be lawful for the president to hold that a situation has arisen to impose president's rule.
- It can be extended for a maximum period of three years with the approval of the Parliament, every six months.
- President's Rule has been imposed in an arbitrary manner for political or personal reasons.
- A law made by the Parliament or president or any other specified authority continues to be operative even after the President's Rule.
- A proclamation imposing President's Rule must be approved by both the Houses of Parliament within two months from the date of its issue.
- Every resolution approving the proclamation of President's Rule or its continuation can be passed by either House of Parliament only by a simple majority.
- President's Rule can be proclaimed
- When the government of a state cannot be carried on in accordance with the provisions of the Constitution due to reasons which may not have any connection with war, external aggression or armed rebellion.

Context: The union government have reaffirmed that president's rule is the last resort to continuing Manipur violence.

Q. 115) EX KHAAN QUEST 2023, often seen in the news, is associated with which of the following?

- a) Multinational Peacekeeping Joint Exercise
- b) Bilateral army exercise between India and Mongolia
- c) Multinational Naval exercise in Indian Ocean
- d) Trilateral Navy exercise involving Singapore-India-Thailand to bolster maritime relationships

Q. 115) Solution (a)

Option a

Correct

Exercise Khaan Quest 2023:

- It features participation from military contingents and observers from over 20 countries.
- The exercise is co-sponsored by Mongolian Armed Forces (MAF) and the United States Army Pacific Command (USARPAC).
- The Indian Army is represented by a contingent from the GARHWAL RIFLES.
- The 14-day exercise is aimed at enhancing the interoperability of the participating nations, sharing experience and training uniformed personnel for the United Nations Peacekeeping Operations (UNPKO).
- The exercise will prepare participants for future UN Peacekeeping missions, develop peace operations capabilities and enhance military readiness.

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• The exercise includes Command Post Exercise (CPX), Field Training Exercises (FTX), combat discussions, lectures and demonstrations.

Context: Recently, the multinational Peacekeeping Joint Exercise "Ex Khaan Quest 2023" commenced in Mongolia.

Q. 116) Consider the following statements about Lake Victoria

- 1. It is located at the border of Kenya, Tanzania and Rwanda on the African continent.
- 2. It is the largest tropical lake in the world.
- 3. The White Nile is the only river flowing out of the Lake.

How many of the statements given above are correct?

- a) Only one
- b) Only two
- c) All Three
- d) None

Q.116) Solution (b)

Statement Analysis

Statement 1	Statement 2	Statement 3
Incorrect	Correct	Correct
 It is located at the border of Kenya, Tanzania and Uganda on the African continent. Associated countries - The basin's catchment area traverses through 5 East African Countries - Tanzania (44%), Kenya (22%), Uganda (16%), Rwanda (11%) and Burundi (7%). This trans-boundary asset is shared by Tanzania (51%), Uganda (43%) and Kenya (6%). 	 Largest freshwater lake in Africa World's largest tropical lake Second largest freshwater lake in the world, after Lake Superior in North America 	Rivers - A number of important rivers flow into Lake Victoria including the River Mara, Kagera, Yala, Nyando, Bukora and Katonga. • The White Nile is the only river flowing out of the Lake. • The Kagera (Akagera) River, which drains the mountains of Burundi and Rwanda, is considered as the source of the Nile.

Context: A recent report shows that heavy rains, wind storms, and floods threaten the survival and water access of the communities living in the Lake Victoria Basin (LVB), East Africa.

Q. 117) Consider the following statements about Submersibles

- 1. Submersibles can be fully submerged into water and cruise using their own power supply and air renewal system.
- 2. Submersibles do not function as an autonomous craft and relies on a support platform to deploy and return.

Choose the incorrect statements:

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

Q. 117) Solution (d)

Statement Analysis

Statement 1	Statement 2	
Correct	Correct	
 Titan is a submersible capable of taking 5 people up to a depth of 4000 meters or more than 13,100 feet. Submersibles are small, limited range watercrafts designed for a set mission, that are built with characteristics that allow them to operate in a specific environment. These vessels are typically able to be fully submerged into water and cruise using their own power supply and air renewal system. 	 A submersible, unlike a submarine, doesn't have enough power to launch itself into the ocean and return on its own. Instead, it relies on a support ship to launch it and recover it. Submersibles always operate in conjunction with a mother ship. Also, submersible doesn't have large propulsion systems and ballast systems like Submarine. Unlike submarines, submersibles also have a viewport and external cameras to view the outside space surrounding the vessel. The uses of Submersible include Deep sea testing of hardware and software, Site survey and inspection, Research and data collection and Film and media production 	

Context: Recently tourist who went to visit titanic wreckage in Titan submersible vessel went missing.

Q. 118) Consider the following statements about Global Stocktake

- 1. Global Stocktake is a periodic review of progress on Global Stock Market.
- 2. Under the mandate of IMF's financial agreement, it must be conducted every three years.

Choose the correct statements:

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

Q. 118) Solution (d)

Statement Analysis

Statement 1	Statement 2	
Incorrect	Incorrect	
The Global Stocktake is a periodic review	• As a mandate of Paris Agreement, it must be conducted	
of progress on climate action.	every five years starting from 2023.	

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- It is a Party-driven process conducted in a transparent manner and with the participation of non-Party stakeholders.
- It enables countries and other stakeholders to see where they're collectively making progress toward meeting the goals of the Paris Agreement.
- It also decides ways and means to enhance global action to bridge the adequacy gap.
- Mitigation Work Programme (MWP) is a part of Global Stocktake which was set up at COP26 in Glasgow in 2021.
- Annexure I of the 1992 UN Framework Convention on Climate Change (UNFCCC) include group of about 40 rich and industrialised countries which are hugely responsible for climate change.
- According to Intergovernmental Panel on Climate Change global emissions have to come down by 43% from 2019 levels by 2030 to keep alive hopes of meeting the 1.50 target.
- The loss and damage need of developing countries are assessed to be about USD 400 billion every year.
- Developing countries need as much as USD 6 trillion before 2030 just to implement their climate action plans.

Context: In the recently conducted Bonn climate conference the decisions on Global Stocktake was finally taken.

Q. 119) Consider the following statements about International Centre for Integrated Mountain Development (ICIMOD)

- 1. It develops and shares research and innovations to empower people in the 8 regional member countries of the Hindu Kush Himalayan (HKH).
- 2. India, Kazakhstan and Nepal are members of ICIMOD.

Choose the correct statements:

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

Q. 119) Solution (a)

Statement Analysis

Statement 1	Statement 2
Correct	Incorrect
 ICIMOD is an intergovernmental knowledge and learning centre It develops and shares research, information, and 	Regional member countries We are an intergovernmental institution set up by our eight RMCs, whose governments support us and provide us strategic guidance.
innovations to empower people in the eight regional member countries of the Hindu Kush Himalayan (HKH).	AFGHANISTAN BANGLADESH BHUTAN CHINA INDIA MYANMAR NEPAL PAKISTAN
It is based at Kathmandu, Nepal.	

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- Ice and snow in the Hindu Kush Himalayan ranges is an important source of water for the rivers, which flow through 16 countries in Asia.
- Ice and snow in the Hindu Kush Himalayan ranges provide fresh water to 240 million people in the mountains and another 1.65 billion downstream.
- Various earlier reports have found that the cryosphere, regions on Earth covered by snow and ice are among the worst affected by climate change.
- Himalayan glaciers disappeared 65% faster since 2010 than in the previous decade and reducing snow cover due to global warming will result in reduced fresh water for people living downstream.

Context: A recent report by International Centre for Integrated Mountain Development (ICIMOD) reveals that Himalayan glaciers could lose 80% of their volume if global warming isn't controlled.

Q. 120) Thol Pavai Koothu Puppetry, recently seen in news is practiced in which of the following state?

- a) Tamil Nadu
- b) Andhra Pradesh
- c) Kerala
- d) Telangana

Q. 120) Solution (a)

Option a

Correct

- Muthuchandra Rao, a renowned puppet artist from the Kanniyakumari district in Tamil Nadu, has been
 invited to perform at the Fetna 36th Convention in the United States (Federation of Tamil Sangams of
 North America (FeTNA)).
- Tholpavaikoothu is a form of Shadow puppetry made of three Tamil terms, thol, meaning leather, pavai, meaning doll, and koothu, meaning the play or drama. This form of art is especially popular in the Madurai, Kanyakumar (TN), Palakkad Thrissur and Malappuram districts of Kerala

Context: Muthuchandra Rao, a renowned puppet artist from the Kanniyakumari district in Tamil Nadu, has been invited to perform at the Fetna 36th Convention in the United States (Federation of Tamil Sangams of North America (FeTNA)).

Q.121) Consider the following statements about Gender Gap Index, 2023

- 1. Global Gender Gap Report is released biennially by the World Economic Forum.
- 2. India was ranked at 127 out of 146 countries in terms of gender parity in 2023 index.
- 3. According to the report, India had attained parity in enrolment across all levels of education.

How many of the statements given above are correct?

- a) Only one
- b) Only two

- c) All Three
- d) None

Q. 121) Solution (b)

Statement Analysis

Statement 1	Statement 2	Statement 3
Incorrect	Correct	Correct
 Global Gender Gap Report is released annually by the World Economic Forum (WEF) since 2006. It measures gender parity in 146 countries and across four areas: economic participation and opportunity, educational attainment, health and survival and political empowerment. 	gender parity, an improvement of eight places from last year.	 According to the report, India had attained parity in enrolment across all levels of education. On political empowerment, India has registered 25.3% parity, with women representing 15.1% of parliamentarians — the highest for the country since the inaugural report in 2006. The index ranked India's neighbours Pakistan at 142, Bangladesh at 59, China at 107, Nepal at 116, Sri Lanka at 115 and Bhutan at 103. Iceland is the most gender-equal country in the world for the 14th consecutive year and the only one to have closed more than 90% of its gender gap.

Context: India was ranked at 127 out of 146 countries in terms of gender parity — an improvement of eight places from last year, according to the recently published annual Gender Gap Report, 2023.

Q. 122) Consider the following statements about Asia Pacific Plant Protection Commission

- 1. It is an intergovernmental organization that promotes cooperation among countries in the Asia-Pacific region to enhance plant health and plant protection.
- 2. The Director-General of the Food and Agriculture Organization provides the secretariat to coordinate the work of the Commission.

Choose the correct statements:

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

Q. 122) Solution (c)

Statement Analysis

Statement 1	Statement 2
Correct	Correct

- It is an intergovernmental organization that promotes cooperation among countries in the Asia-Pacific region to enhance plant health and plant protection.
- It was established in 1956 as a regional body approved by the Food and Agriculture Organization (FAO) of the United Nations.
- Member Countries: The commission consists of 25 member countries, including India.

Structure of the organization:

- The Commission consists of representatives of all member countries and elects amongst them a Chairperson who serves for a period of two years.
- The Director-General of the Food and Agriculture Organization appoints and provides the secretariat that coordinates, organizes and follows up the work of the Commission.
- The Commission, according to its provisions convenes at least once every two years and opens for participation to all member countries.

Context: The Asia Pacific Plant Protection Commission unanimously elected India as chair of the Standing Committee on Integrated Pest Management (IPM) for the biennium 2023-24 during the 32nd Session held in Bangkok.

Q. 123) Consider the following statements about Black Cocaine

- 1. It is a rare drug, which is typically white in colour but mixed with charcoal to give it black rubbery appearance.
- 2. Pure cocaine is recovered from the black cocaine by extraction using methylene chloride or acetone.

Choose the incorrect statements:

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

Q. 123) Solution (d)

Statement Analysis

Statement 1	Statement 2
Correct	Correct
 Black cocaine is rare drug, which is typically white in colour but it is the additional substance that makes it black in colour. It is a designer drug wherein cocaine is mixed with charcoal and other chemicals to give it black rubbery appearance. It cannot be even detected by sniffer dogs. 	 mixture by extraction using common organic solvents such as methylene chloride or acetone. South American countries where coca plants grow

Context: The Narcotics Control Bureau (NCB) has recently arrested a Bolivian woman for allegedly carrying black cocaine.

Q. 124) Consider the following statements BepiColombo Spacecraft

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- 1. It is a joint mission between the European Space Agency (ESA) and the National Aeronautics and Space Administration (NASA)
- 2. It aims to study and understand the composition and geophysics of Mercury.

Choose the incorrect statements:

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

Q. 124) Solution (a)

Statement Analysis

Statement 1	Statement 2
Incorrect	Correct
 It is a joint mission between the European Space Agency (ESA) and the Japan Aerospace Exploration Agency (JAXA). Launched on – 2018. Launch Vehicle - Ariane 5. 	,

Context: Recently, BepiColombo spacecraft flew close to Mercury to take pictures of the planet.

Q. 125) Beki River, recently seen in news is a tributary of which of the following river?

- a) Mahanadi River
- b) Narmada River
- c) Brahmaputra River
- d) Periyar River

Q. 125) Solution (c)

Option c

Correct

- The Beki river originates in Bhutan, and it is one of the right bank tributaries of the Brahmaputra river.
- This river is also known as the Kurisu river in Bhutan.
- A large portion of the Beki river flows in the state of Assam and ultimately mix with Bay of Bengal.
- It flows through the Manas National Park.

- The river and its drainage channels flow through the plains of Assam for about 85 km and drain an area of 26,243 sq. km. approximately.
- Beki river is rich in bio-diversities. It is the home of a variety of food fishes' species, ornamental fishes' species, amphibians, reptiles, birds, insects etc.
- Discharging a huge amount of water every year, the river turns dangerous during monsoon season.

Context: The flood situation in Assam was recently worsened as nearly 1.20 lakh people in 20 districts have been affected by the deluge.



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