



IASBABA'S
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AFFAIRS QUIZ
COMPILATION
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Q.1) Consider the following statements with respect to 'UN High Seas Treaty'

1. The treaty concerns the ocean existing beyond the Exclusive Economic Zones
2. The treaty has been negotiated under High Ambition Coalition

Select the correct statement(s)

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

Q.1) Solution(a)**Statement Analysis:**

Statement 1	Statement 2
Correct	Incorrect
The proposed treaty concerns the ocean existing beyond the Exclusive Economic Zones that lie from the coast of a country to about 200 nautical miles or 370 km into the sea, till where it has special rights for exploration. Waters beyond that are known as open seas or high seas.	The treaty was to be negotiated under the United Nations Convention on Laws of the Sea (UNCLOS) of 1982 which governs the rights of countries regarding marine resources.

Context - Negotiations involving 168 countries, including the European Union, to agree on a UN treaty for protecting oceans failed

Q.2) 'PARAKH' seen in news is used in the context of

- a) Skill development
- b) Performance assessment
- c) Project monitoring
- d) Government procurement

Q.2) Solution(b)

The proposed regulator, PARAKH (Performance Assessment, Review and Analysis of Knowledge for Holistic Development), which will act as a constituent unit of the NCERT, will also be tasked with holding periodic learning outcome tests like the National Achievement Survey (NAS) and State Achievement Surveys.

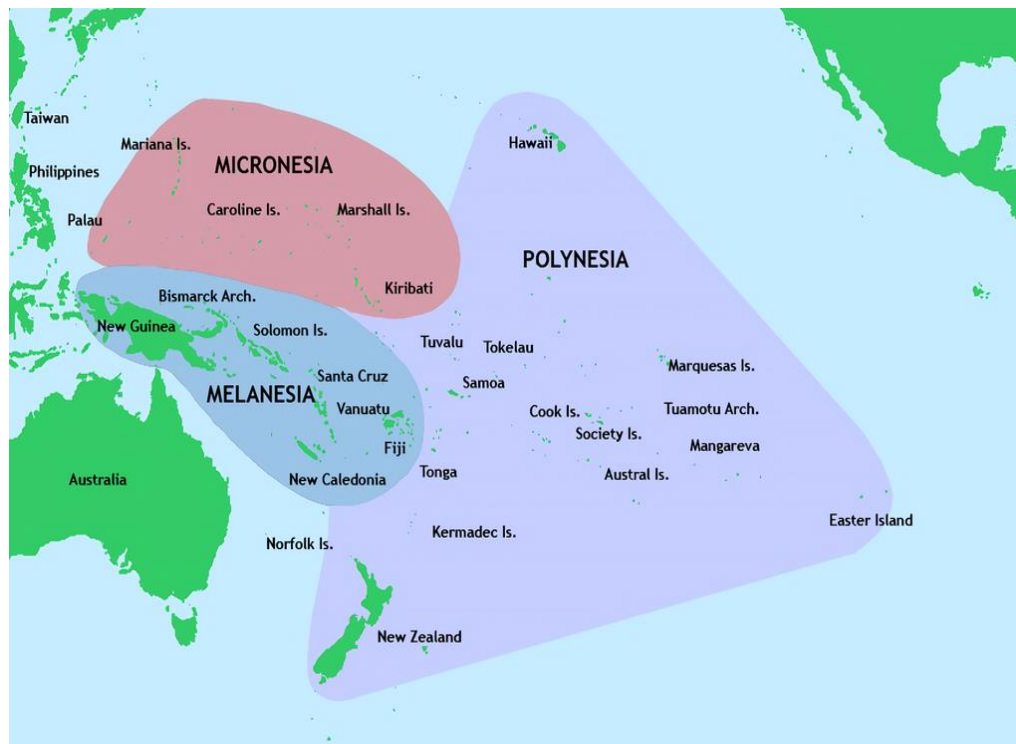
Context - Government proposes a new regulator for 'uniformity' in all board exams

Q.3) Arrange the following Pacific Ocean Islands from South to North

1. Fiji
2. New Caledonia
3. Marshall islands
4. Solomon islands

Choose the correct code:

- a) 1-3-2-4
- b) 2-1-4-3
- c) 2-1-3-4
- d) 1-2-3-4

Q.3) Solution (b)

Context: Solomon Islands has suspended visits from all foreign Navies, citing a need to review approval processes, after a U.S. Coast Guard ship was unable to refuel at its port.

Q.4) Consider the following statements

1. International Atomic Energy Agency (IAEA) was created in 1945 aftermath of atomic bomb incidents on Hiroshima and Nagasaki.
2. World Energy Outlook (WEO) is the annual report published by International Atomic Energy Agency.
3. In 2005, IAEA was awarded the Nobel Peace Prize for their work for a safe and peaceful world.

Choose the **incorrect** statements:

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

Q.4) Solution (c)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Incorrect	Incorrect	Correct
<ul style="list-style-type: none"> • Widely known as the world's "Atoms for Peace and Development" organization within the United Nations family, the IAEA is the international centre for cooperation in the nuclear field. • The IAEA was created in 1957 in response to the deep fears and expectations generated by the discoveries and diverse uses of nuclear technology. • Headquarter: Vienna, Austria. 	<ul style="list-style-type: none"> • The International Energy Agency (IEA) released the World Energy Outlook (WEO) Report 2021. Published every year, the WEO provides critical analysis and insights on trends in energy demand and supply. 	<ul style="list-style-type: none"> • In 2005, IAEA was awarded the Nobel Peace Prize for their work for a safe and peaceful world.

Context: A team of officials from the International Atomic Energy Agency (IAEA) arrived in Ukraine to assess the condition of the Zaporizhzhia Nuclear Power Plant.

Q.5) Consider the following statements about Special Marriage Act (SMA), 1954

1. The act requires the couples to give a notice declaring their intent to marry 30 days before their marriage.
2. It allows any person to object to the marriage within 30 days of the publication of the notice.
3. This Act applies not only to Indian citizens but also to Indian nationals who live abroad.

Choose the correct statements:

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

Q.5) Solution (d)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Correct	Correct	Correct
<ul style="list-style-type: none"> • The Special Marriage Act (SMA), 1954 requires couples to give a notice declaring their intent to marry 30 days before their marriage 	<ul style="list-style-type: none"> • Section 7(1) of SMA allows any person to object to the marriage within 30 days of the publication of the notice, failing which a marriage can be solemnised under Section 7(2) 	<ul style="list-style-type: none"> • This Act includes Hindus, Muslims, Christians, Sikhs, Jains, and Buddhists marriages. • This Act applies not only to Indian citizens who belong to different castes and religions but also to Indian nationals who live abroad.

Context: The Supreme Court dismissed a writ petition challenging provisions of the Special Marriage Act (SMA), 1954.

Q.6) Consider the following statements about Anti-Radiation Pills

1. They are Potassium iodide (KI) tablets which provide protection in cases of radiation exposure.
2. Potassium iodide (KI) tablets achieve protection by the process of 'thyroid blocking'.

Choose the **incorrect** statements:

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

Q.6) Solution (d)

Statement Analysis:

Statement 1	Statement 2
Correct	Correct
<ul style="list-style-type: none"> • Potassium iodide (KI) tablets, or anti-radiation pills, are known to provide some protection in cases of radiation exposure. • They contain non-radioactive iodine and can help block absorption, and subsequent concentration, of radioactive iodine in the thyroid gland. 	<ul style="list-style-type: none"> • The thyroid gland, which uses iodine to produce hormones to regulate the body's metabolism, has no way of telling radioactive from non-radioactive iodine. • Potassium iodide (KI) tablets rely on this to achieve 'thyroid blocking'. • KI pills taken a few hours before or soon after radiation exposure ensure that non-radioactive iodine in the medicine is absorbed quickly to make the thyroid "full". • But KI pills are preventive only and cannot reverse any damage done by radiation to the thyroid gland.

Context: With fears of a nuclear disaster at Ukraine's Zaporizhzhia power plant growing, the European Union has decided to pre-emptively supply 5.5 million anti-radiation pills to be distributed among residents in the vicinity.

Q.7) Consider the following statements about Index of Industrial Production

1. It is compiled and published monthly by the National Statistical Office (NSO).
2. The Base Year for IIP is 2014-2015.
3. The Eight core sectors comprise 40% of the weight of items included in the IIP.

Choose the correct statements

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

Q.7) Solution (d)**Statement Analysis:**

Statement 1	Statement 2	Statement 3
Correct	Incorrect	Correct
<ul style="list-style-type: none"> • IIP is an indicator that measures the changes in the volume of production of industrial products during a given period. • It is compiled and published monthly by the National Statistical Office (NSO), Ministry of Statistics and Programme Implementation. 	<ul style="list-style-type: none"> • Base Year for IIP is 2011-2012. 	<ul style="list-style-type: none"> • These comprise 40.27% of the weight of items included in the Index of Industrial Production (IIP). • The eight core sector industries in decreasing order of their weightage: Refinery Products> Electricity> Steel> Coal> Crude Oil> Natural Gas> Cement> Fertilizers.

Context: Growth in the output of eight core infrastructure sectors decelerated sharply for a second straight month to hit a six-month low of 4.5 per cent.

Q.8) Consider the following statements about Oncolytic Viruses (OVs)

1. Oncolytic viruses are a form of immunotherapy that uses viruses to infect and destroy cancer cells.
2. They cause cancer cells to burst, which releases cancer antigens, to eliminate any nearby tumour cells.

Choose the correct statements:

- 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
<ul style="list-style-type: none"> • Oncolytic viruses are a form of immunotherapy that uses viruses to infect and destroy cancer cells. • They selectively target and kill cancer cells while sparing normal ones. 	<ul style="list-style-type: none"> • After infection, these oncolytic viruses can cause cancer cells to “burst”, killing the cancer cells and releasing cancer antigens. • These antigens can then stimulate immune responses that can seek out and eliminate any remaining tumour cells nearby and potentially anywhere else in the body.

Context: The body's immune capacity against cancer — to recognise and destroy cancer cells — can be boosted by using oncolytic virus.

Q.9) Consider the following statements about Narcotic Drugs and Psychotropic Substances Act, 1985

1. All the offences under the NDPS Act are non-bailable.
2. No relief can be sought by the drug convicts by termination, remission, and commutation of sentences passed.
3. Narcotics Control Bureau, nodal drug law enforcement works under the Union Minister of Health and Family Welfare.

Choose the correct statements using the code given below

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

Q.9) Solution (d)**Statement Analysis:**

Statement 1	Statement 2	Statement 3
Correct	Correct	Incorrect
<ul style="list-style-type: none"> • The NDPS Act prohibits a 	<ul style="list-style-type: none"> • No relief can be sought 	<ul style="list-style-type: none"> • Narcotics Control Bureau

<p>person from the production/manufacturing/cultivation, possession, sale, purchasing, transport, storage, and/or consumption of any narcotic drug or psychotropic substance.</p> <ul style="list-style-type: none"> All the offences under the NDPS Act are non-bailable. 	<p>by the drug convicts by termination, remission, and commutation of sentences passed.</p>	<ul style="list-style-type: none"> NCB is the nodal drug law enforcement and intelligence agency of India responsible for fighting drug trafficking and the abuse of illegal substance. It functions under Union Ministry of Home Affairs (MHA). It is headquartered in New Delhi.
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Context: Karnataka High Court recently observed that nowhere in the Narcotic Drugs and Psychotropic Substances (NDPS) Act is bhang referred to as a prohibited drink or prohibited drug

Q.10) "CERVAVAC" Vaccine recently in news is for the prevention of?

- Lumpy Skin Disease
- Malaria
- African swine fever
- Cervical cancer

Q.10) Solution (d)

Option d
Correct
<ul style="list-style-type: none"> Union Minister of State Science & Technology announces India's first indigenously developed vaccine, "CERVAVAC" for the prevention of cervical cancer. Cervavac was developed by the Pune-based Serum Institute of India in coordination with the Government of India's Department of Biotechnology (DBT).

Context: India's first indigenously developed vaccine, "CERVAVAC" for the prevention of cervical cancer announced.

Q.11) Consider the following statements about Cri-MAC portal, recently seen in news

1. Cri-MAC was launched in 2014 by the Ministry of Home Affairs (MHA).
2. It functions under the aegis of the National Crime Records Bureau (NCRB).
3. It shares information on crime and criminals 24x7 with various law enforcement agencies.

Choose the correct statements:

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

Q.11) Solution (c)**Statement Analysis**

Statement 1	Statement 2	Statement 3
Incorrect	Correct	Correct
<ul style="list-style-type: none"> • Launched by: 2020 by the Ministry of Home Affairs (MHA). 	<ul style="list-style-type: none"> • Implemented by: The application is run by the National Crime Records Bureau (NCRB). 	<ul style="list-style-type: none"> • Aim: To share information on crime and criminals 24x7 with various law enforcement agencies and ensure a seamless flow of information among them.

Context: At least seven States and one Union Territory have not uploaded a single alert on the Crime Multi Agency Centre (Cri-MAC) portal since it was launched in March 2020.

Q.12) Consider the following statements about Indo-Pacific Economic Framework for Prosperity (IPEF)

1. Along with India and USA, all ASEAN countries are members to the framework.
2. Trade and Tax & Anti-Corruption are among the four pillars of the framework.
3. Under the framework developed countries have agreed to provide financial assistance of \$100 billion to the developing countries of the framework.

Choose the **incorrect** statements:

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

Q.12) Solution (d)**Statement Analysis**

Statement 1	Statement 2	Statement 3
Correct	Correct	Incorrect
<ul style="list-style-type: none"> • The Indo-Pacific Economic Framework (IPEF) was launched by United States (US) President Biden in Tokyo on May 23, 2022. • Except Cambodia, Laos and Myanmar, other Southeast Asian nations are a part of the IPEF. 	<ul style="list-style-type: none"> • The IPEF has four pillars: • Trade; supply chains; clean energy, decarbonisation and infrastructure; tax and anti-corruption. 	<ul style="list-style-type: none"> • There is no such measure.

Context: Commerce and Industry Minister to visit San Francisco to attend the first ever in-person Ministerial meeting of the Indo-Pacific Economic Framework (IPEF).

Q.13) SPARK program, recently seen in news is related to?

- a) Skill Development
- b) Support Innovative Research in Ayurveda
- c) Strengthening Panchayat Raj Institutions
- d) Rehabilitation of tribes affected by mining

Q.13) Solution (b)

Option b
Correct
The Central Council for Research in Ayurvedic Sciences (CCRAS), has taken a unique initiative to support the research efforts of bright young minds of the Country by developing the Studentship Program for Ayurveda Research Ken (SPARK) for Ayurveda (BAMS) students studying in recognised Ayurveda colleges.

Context: SPARK initiative launched by CCRAS.

Q.14) Consider the following statements

1. All cervical cancer cases are linked to certain strains of human papillomavirus (HPV), which is transmitted through sexual contact.
2. The body's immune system usually gets rid of the HPV infection naturally within three months.
3. Cervavac is India's first indigenously developed Quadrivalent Human Papillomavirus vaccine (qHPV), against cervical cancer.

Choose the correct statements:

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

Q.14) Solution (a)

Statement Analysis

Statement 1	Statement 2	Statement 3
Correct	Incorrect	Correct
<ul style="list-style-type: none"> • Almost all cervical cancer cases are linked to certain strains of human papillomavirus (HPV), a common virus that is transmitted through sexual contact. 	<ul style="list-style-type: none"> • The body's immune system usually gets rid of the HPV infection naturally within two years. • In a small percentage of people the virus can linger over time and turn some normal cells into abnormal cells and then cancer. 	<ul style="list-style-type: none"> • Cervavac is India's first indigenously developed quadrivalent human papillomavirus (qHPV) vaccine for the prevention of cervical cancer. • Cervavac was developed by the Pune-based Serum Institute of India in coordination with the Government of India's Department of Biotechnology (DBT). • HPV vaccines are given in two doses and data has shown that the antibodies that develop after both are administered can last up to six or seven years.

Context: Union Minister of State announces India's first indigenously developed vaccine, "CERVAVAC" for the prevention of cervical cancer.

Q.15) Which among the following are favorable conditions for the formation of Tropical Cyclone

1. Upper divergence above the sea level system
2. Small variations in the vertical wind speed
3. Presence of the Coriolis force enough to create a cyclonic vortex

Choose the correct code:

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

Q.15) Solution (c)

Option c
Correct
<p>Conditions Favourable for Tropical Cyclone Formation</p> <ul style="list-style-type: none"> • Large sea surface with temperature higher than 27° C, • Presence of the Coriolis force enough to create a cyclonic vortex, • Small variations in the vertical wind speed, • A pre-existing weak low-pressure area or low-level-cyclonic circulation, • Upper divergence above the sea level system.

Context: The strongest tropical storm of 2022, dubbed Super Typhoon 'Hinnamnor', has been barrelling across the western Pacific Ocean.

Q.16) Consider the following statements about National Legal Services Authority

1. Its objective is to provide free and competent legal services to the weaker sections of the society on the basis of equal opportunity.
2. The second senior-most Judge of the Supreme Court of India is the Executive-Chairman of the Authority.
3. It issues guidelines for the State Legal Services Authorities to implement the legal programmes and schemes throughout the country.

Choose the correct statements:

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

Q.16) Solution (d)**Statement Analysis**

Statement 1	Statement 2	Statement 3
Correct	Correct	Correct
<ul style="list-style-type: none"> • The NALSA was founded in 1995 under the Legal Services Authorities Act of 1987 to monitor and review the effectiveness of legal aid programs and to develop rules and principles for providing legal services under the Act. • It also distributes funding and grants to state legal services authorities and non-profit organisations to help them execute legal aid systems and initiatives. 	<ul style="list-style-type: none"> • The Chief Justice of India is patron-in-chief of NALSA while the second senior-most Judge of the Supreme Court of India is the Executive-Chairman. 	<ul style="list-style-type: none"> • It issues policies, principles, guidelines for the State Legal Services Authorities to implement the legal programmes and schemes throughout the country.

Context: SC Judge DY Chandrachud has been nominated as Executive Chairman of National Legal Services Authority

Q.17) Consider the following statements about Liquid Nano Urea

1. The Indian Farmers Fertiliser Cooperative Limited (IFFCO) introduced the world's first Nano Urea Liquid for farmers across the world.
2. Conventional urea is effective 30-40% in delivering nitrogen to plants, while the effectiveness of the Nano Urea Liquid is over 80%.

Choose the **incorrect** statements:

- a) 1 only

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

Q.17) Solution (d)**Statements Analysis**

Statement 1	Statement 2
Correct	Correct
<ul style="list-style-type: none"> • It is Indigenous Urea, introduced firstly by the Indian Farmers Fertiliser Cooperative Limited (IFFCO) for farmers across the world. • It is urea in the form of a nanoparticle. It is a nutrient (liquid) to provide nitrogen to plants as an alternative to the conventional urea. 	<ul style="list-style-type: none"> • It is developed to replace conventional urea and it can curtail the requirement of the same by at least 50%. • Conventional urea is effective 30-40% in delivering nitrogen to plants, while the effectiveness of the Nano Urea Liquid is over 80%.

Context: PIB reported that the news report on fast tracking approvals for Nano Urea with incomplete trials is misleading and presents partial view of the existing facts and data available on the subject.

Q.18) Consider the following statements

1. Treaty on the Prohibition of Nuclear Weapons is the first legally binding international agreement to comprehensively prohibit nuclear weapons.
2. All the permanent members of the UN Security Council have ratified Comprehensive Test Ban Treaty (CTBT) that bans all nuclear explosions – everywhere, by everyone.

Select the correct statement(s)

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

Q.18) Solution (a)**Statement Analysis:**

Statement 1	Statement 2
Correct	Incorrect

<ul style="list-style-type: none"> • Treaty on the Prohibition of Nuclear Weapons • The nuclear have-nots successfully negotiated a Treaty on the Prohibition of Nuclear Weapons (TPNW, also called Ban Treaty) in 2017 that entered into force in January 2021. • All 86 signatories are nuclear have-nots and parties to the NPT. • It is the first legally binding international agreement to comprehensively prohibit nuclear weapons, with the goal of leading towards their total elimination. 	<ul style="list-style-type: none"> • The Comprehensive Test Ban Treaty (CTBT) was concluded in 1996 but has yet to formally enter into force because two major powers, the U.S. and China, have yet to ratify it. • The CTBT is the Treaty banning all nuclear explosions – everywhere, by everyone. • The Treaty will enter into force after all 44 States listed in Annex 2 to the Treaty will ratify it. These States had nuclear facilities at the time the Treaty was negotiated and adopted.
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Context: The Tenth Review Conference of the Parties to the Treaty on the Non-Proliferation of Nuclear Weapons (NPT) concluded recently and the delegates failed to agree on a final document.

Q.19) Consider the following statements about Inflatable Aerodynamic Decelerator (IAD)

1. It is indigenously developed Air defence mechanism by DRDO.
2. The decelerator in the system helps identify the acceleration of the incoming missiles.
3. IAD can identify the speed of both cruise and ballistic missiles.

Choose the **incorrect** statements:

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

Q.19) Solution (d)

Statement Analysis

Option d
Correct
<ul style="list-style-type: none"> • Inflatable Aerodynamic Decelerator or IAD in short is a technique used for an atmospheric entry payload. An inflatable envelope and an inflatant (anything that inflates the envelope, like air or helium) make up the inflatable aerodynamic

decelerator.

- While entering the atmosphere, it inflates like a balloon and decelerates the lander.
- The inflatable is designed to fill the inflatable envelope to a condition such that it surrounds the payload meant to enter the atmosphere of a planet or satellite and causes aerodynamic forces to slow it down.
- In simpler words, IAD is designed to increase drag upon entering the atmosphere of any planetary body, like Earth, Mars, or even Moon. Its shape is maintained by a closed, gas-pressured body and the inflatable gas is also generated internally.



Context: The Indian Space Research Organisation (ISRO) declared that it has successfully demonstrated the new technology with Inflatable Aerodynamic Decelerator (IAD).

Q.20) Shumang Leela festival, a traditional form of theatre is celebrated in?

- Odisha
- Manipur
- Assam
- West Bengal

Q.20) Solution (b)

Option b

Correct

- Shumang Leela is a traditional form of theatre in Manipur and the roles of female artists are all played by male actors and male characters are played by female artists in case of female theatre groups.

- In 2017, Shougrakpam Hemanta was conferred with the prestigious Sangeet Natak Akademi Award in recognition of his contribution in Shumang Leela. With this, he became the first person to receive the award for this art form.
- Shumang Leela Groups of the early stage attempted to preserve and promote humanism, tolerance, confidence, devotion, truth and justice through their performances.
- The present day Shumang Leelas have been trying to focus on the issues of moral values, unity and integrity.

Context: The 50th All Manipur Shumang Leela Festival 2021-2022 kicked off at Iboyaima Shumang Leela Shanglen at Palace Compound in Imphal.

Q.21) Consider the following statements about Martand Temple

1. It was built by King Harsha of the first Lohara dynasty in 725 AD.
2. The temple is dedicated to Vishnu-Surya.
3. The historical source for Kashmir's history Rajatarangini, contain descriptions of Martand's grandeur.
4. The temple is influenced by Classical Greco-Roman, Buddhist-Gandharan, and North Indian styles.

Choose the correct statements:

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

Q.21) Solution (d)

Statement Analysis

Option d

Correct

- The Martand Temple was built by the Karkota dynasty king Lalitaditya Muktapida, who ruled Kashmir from 725 AD to 753 AD.
- Dedicated to Vishnu-Surya, the Martand Temple has three distinct chambers—the mandapa, the garbhagriha, and the antralaya—probably the only three-chambered temple in Kashmir.
- A major historical source for Kashmir's history remains Rajatarangini, written in the 12th

century by Kalhana, and various translations of the work contain descriptions of Martand's grandeur.

- The temple is influenced by Classical Greco-Roman, Buddhist-Gandharan, and North Indian styles.

Context: Some pilgrims offered prayers inside the Martand Temple, an Archaeological Survey of India-protected (ASI) monument.

Q.22) Consider the following statements

1. The contempt of court motion can be brought by a private citizen.
2. When the motion is brought by a private citizen, the consent of the Attorney General is required.
3. The court can order attachment of property, if it satisfied that the alleged contemnor is likely to abscond or evade judicial proceedings.

Choose the correct statements:

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

Q.22) Solution (d)

Statement Analysis

Statement 1	Statement 2	Statement 3
Correct	Correct	Correct
<ul style="list-style-type: none"> • The Contempt of Courts Act, 1971, lays down the law on contempt of court. • Section 15 of the legislation describes the procedure on how a case for contempt of court can be initiated. • In the case of the Supreme Court, the Attorney General or the Solicitor General, and in the case of High Courts, the 	<ul style="list-style-type: none"> • However, the motion can be brought by a private citizen as well — and in such a case, the consent of the Attorney General (or the Advocate General, as the case may be,) is required. 	<ul style="list-style-type: none"> • If the court is satisfied that the alleged contemnor is likely to abscond or evade judicial proceedings, it can order attachment of property of a value that it deems reasonable

Advocate General, may bring in a motion before the court for initiating a case of criminal contempt.		
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Context: AG has declined a request for consent to initiate criminal contempt of court proceedings against Senior Advocate Kapil Sibal for certain remarks that he made during a speech on the subject of Judicial Rollback of Civil Liberties.

Q.23) Consider the following statements about Polysaccharides

1. They are also called glycan, the form in which most natural carbohydrates occur.
2. Polysaccharides are used in coating vegetables and fruits to keep them fresh.

Choose the **incorrect** statements:

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

Q.23) Solution (d)

Statement Analysis

Statement 1	Statement 2
Correct	Correct
<ul style="list-style-type: none"> • They are also called glycan, the form in which most natural carbohydrates occur. • Polysaccharides may have a molecular structure that is either branched or linear. • Linear compounds such as cellulose often pack together to form a rigid structure; branched forms generally are soluble in water and make pastes. 	<ul style="list-style-type: none"> • Researchers at the IIT Guwahati have developed an edible coating that can extend the shelf-life of fruits and vegetables. • The specialised coating was created using a mixture of two substances: micro-algae extract and polysaccharides. • The extract is from the marine microalgae <i>Dunaliella tertiolecta</i>, which is often used as a source of algae oil, which is a health supplement that is a plant-based alternative to fish oil.

Context: Researchers at the IIT Guwahati have developed an edible coating that can extend the shelf-life of fruits and vegetables.

Q.24) Consider the following statements about PM SHRI Yojana

1. The scheme aims to provide financial assistance to rural Self Help Groups.
2. It is a centrally sponsored scheme.
3. It also aims to form at least one SHG in each village by 2024.

Choose the correct statements:

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

Q.24) Solution (a)

Statement Analysis

Option a
Correct
<ul style="list-style-type: none"> • On the occasion of National Teachers' Day, the Prime Minister announced a new initiative - PM SHRI Schools (PM ScHools for Rising India). • This will be a new centrally sponsored scheme for upgradation and development of more than 14500 Schools across the country by strengthening the selected existing schools from amongst schools managed by Central Government/ State/ UT Government/ local bodies. • PM SHRI Schools will showcase all components of the National Education Policy 2020 and act as exemplar schools and also offer mentorship to other schools in their vicinity. The aim of these schools will not only be qualitative teaching, learning and cognitive development, but also creating holistic and well-rounded individuals equipped with key 21st century skills.

Context: On the occasion of National Teachers' Day, the Prime Minister announced a new initiative - PM SHRI Schools (PM ScHools for Rising India).

Q.25) Prague, recently seen in news is located in?

- a) Poland
- b) Ukraine
- c) Czech Republic
- d) Moldova

Q.25) Solution (c)

Option c

Correct

- Over 70,000 citizens of the Czech Republic gathered at the heart of the nation's capital Prague in a protest against their government's failure to control soaring energy prices.
- The protesters also openly voiced their anger against NATO and the European Union.
- The demonstration held is being seen as the largest show of public discontent in recent times against the cost-of-living crisis that has deepened in Europe amid the Russia-Ukraine war.
- The Czech inflation is currently at its highest since 1993, and is expected to touch 20% in the coming months.
- A key contributor to the double-digit inflation crisis is Russia's decision to cap gas supplies to Europe, which has sent energy costs through the roof.

Context: Citizens of the Czech Republic gathered at the heart of the nation's capital Prague in a protest against their government's failure to control soaring energy prices.

Q.26) Consider the following statements about Einstein Ring

1. It is created when the light from distant objects, like galaxies, pass by an extremely large mass.
2. Einstein Ring is the result of gravitational lensing.
3. They cannot form around a black hole, since the black hole absorbs all the light.

Choose the correct statements:

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

Q.26) Solution (a)

Statement Analysis

Statement 1	Statement 2	Statement 3
Correct	Correct	Incorrect
<ul style="list-style-type: none"> • In Einstein's theory of Gravity, mass can bend the path of light. • It is created when the light from distant objects, like galaxies, pass by an extremely large mass. • A ring-shaped image produced in this way is known as an Einstein Ring. 	<ul style="list-style-type: none"> • A gravitational lens happens when astronomers on Earth look toward a huge galaxy or galaxy cluster, so massive that its gravity distorts any light passing near. • The massive object acts like a lens in space, spreading the light out, often to produce multiple images of a more distant object that happens to be shining behind it. • Or, if the distant background object and the intervening massive galaxy are perfectly aligned, the gravitational lens may spread the light to produce an image of a ring in space. 	<ul style="list-style-type: none"> • For the lensing by a black hole, infinite number of Einstein rings are formed by the light rays which wind around the black hole nearly on the photon sphere, which are called relativistic Einstein rings.

Context: James Webb Space Telescope captures image of near-perfect 'Einstein ring'

Q.27) Consider the following statements

1. The safeguards under Article 22, to a person arrested under a preventive detention law is available only to citizens, but not to aliens.
2. The detention of a person under preventive detention cannot exceed six months unless an advisory board reports sufficient cause for extension.

Choose the **incorrect** statements:

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

Q.27) Solution (c)**Statement Analysis**

Statement 1	Statement 2
Incorrect	Incorrect
<ul style="list-style-type: none"> The safeguards available in Article 22, to a person arrested under a preventive detention law are available to both citizens as well as aliens. 	<ul style="list-style-type: none"> The detention of a person under preventive detention cannot exceed three months unless an advisory board reports sufficient cause for extension.

Context: Preventive detentions in 2021 saw a rise of over 23.7% compared to the year before.

Q.28) Consider the following statements about External Debt of India

- External debt as a ratio to GDP fell in 2022 from the year 2021.
- The short-term debt constituted the largest chunk of 80%, while the long-term debt, accounted only for 19.6 per cent of the total.

Choose the correct statements:

- 1 only
- 2 only
- Both 1 and 2
- Neither 1 nor 2

Q.28) Solution (c)**Statement Analysis**

Statement 1	Statement 2
Correct	Correct
<ul style="list-style-type: none"> India's external debt, at US\$ 620.7 billion as at end-March 2022, grew by 8.2% over US\$ 573.7 billion as at end-March 2021. While 53.2% of it was denominated in US dollar, Indian rupee denominated debt, estimated at 31.2%, was the second largest. External debt as a ratio to GDP fell marginally to 19.9 per cent as at end-March 2022 from 21.2 per cent a year 	<ul style="list-style-type: none"> Foreign currency reserves as a ratio to external debt stood slightly lower at 97.8% as at end-March 2022 than 100.6 per cent a year ago. The long-term debt estimated at US\$ 499.1 billion, constituted the largest chunk of 80.4 per cent, while the short-term debt, at US\$ 121.7 billion, accounted for 19.6 per cent of the total. Commercial borrowings (CBs), NRIs

ago.	deposits, short-term trade credit and multilateral loans together accounted for 90% of the total external debt.
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Context: The External Debt Management Unit (EDMU) in the Department of economic Affairs, Ministry of Finance, has released 28th edition of the Status Report on India's External Debt 2021-22.

Q.29) Which among the following is/are found at Mohenjodaro?

1. Bronze dancing girl
2. Seal of Pasupathi
3. Great bath
4. Steatite statue of beard man

Choose the correct code:

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

Q.29) Solution (d)

Option d
Correct
<ul style="list-style-type: none"> • Mohenjodaro (Mound of Dead) • Excavated by R.D Banerjee in 1922 <p>Important Findings</p> <ul style="list-style-type: none"> • Great bath • Granary • Bronze dancing girl • Seal of Pasupathi Mahadeva • Steatite statue of beard man • A piece of woven cotton

Context: The recent spell of heavy rains and floods that ravaged large parts of Pakistan's Sindh province has also taken a heavy toll on the archaeological site of Mohenjo-daro.

Q.30) Koshiyara River, which forms India-Bangladesh border, as a branch of which of the following river?

- a) Brahmaputra
- b) Barak
- c) Ganga
- d) Teesta

Q.30) Solution (b)

Option b
Correct
<ul style="list-style-type: none"> • The Koshiyara River is a distributary river in Bangladesh and Assam, India. • It forms on the India-Bangladesh border as a branch of the Barak River, when the Barak separates into the Koshiyara and Surma. • The waters of the Koshiyara thus originate in the state of Nagaland in India and pick up tributaries from Manipur, Mizoram and Assam. • Koshiyara flows westward forming the boundary between Assam, India, and the Sylhet District of Bangladesh.

Context: India, Bangladesh sign Koshiyara River Water Sharing Agreement.

Q.31) Consider the following statements about National Clean Air Programme

1. It has the target of 20%–30% reduction of PM2.5 and PM10 concentration by 2024 respectively.
2. To achieve this target it takes 2015 as the base year for comparison of concentration.

Choose the **incorrect** statements:

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

Q.31) Solution (b)

Statement Analysis

Statement 1	Statement 2
Correct	Incorrect
<ul style="list-style-type: none"> • Goal of NCAP is to meet the prescribed annual average ambient air quality 	<ul style="list-style-type: none"> • For this it takes 2017 as the base year for the comparison of concentration.

standards at all locations in the country in a stipulated timeframe.	
<ul style="list-style-type: none"> The tentative national level target of 20%–30% reduction of PM2.5 and PM10 concentration by 2024 	

Context: An analysis by the environmental think tank, Centre for Science and Environment, reported “barely any difference” in trends in particulate matter pollution (PM2.5) between the group of cities under the National Clean Air Programme (NCAP) and those outside its ambit.

Q.32) Consider the following statements about NIPUN Bharat Mission

- It aims to achieve the goal of universal proficiency in foundational literacy and numeracy for every child by the end of Grade 3, by 2026-27.
- A three tier implementation mechanism has been set up, under the aegis of the central sector scheme of Samagra Shiksha.

Choose the correct statements:

- 1 only
- 2 only
- Both 1 and 2
- Neither 1 nor 2

Q.32) Solution (a)

Statement Analysis

Statement 1	Statement 2
Correct	Incorrect
<ul style="list-style-type: none"> It aims to achieve the goal of universal proficiency in foundational literacy and numeracy for every child by the end of Grade 3, by 2026-27, as envisaged by National Education Policy 2020. 	<ul style="list-style-type: none"> A five-tier implementation mechanism will be set up at the National- State- District- Block- School level in all States and UTs, under the aegis of the centrally sponsored scheme of Samagra Shiksha.

Context: Foundational Learning Study (FLS), a nationwide study has been carried out jointly by the Union Ministry of Education and the National Council of Educational Research and Training.

Q.33) Consider the following statements about Legionellosis Disease

1. It is a bacterial disease caused by the bacteria pneumophila.
2. The most common form of transmission is inhalation of contaminated aerosols produced in conjunction with water sprays.
3. The disease can be treated and prevented by the Pneumococcal vaccine.

Choose the correct statements:

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

Q.33) Solution (d)**Statement Analysis**

Option d
Correct
<p>Legionellosis Disease</p> <ul style="list-style-type: none"> • It was reported during the outbreak of severe pneumonia in a convention centre in the USA in 1976. • The most common form of transmission of Legionella is inhalation of contaminated aerosols produced in conjunction with water sprays, jets or mists of contaminated water sources. Infection can also occur by aspiration of contaminated water or ice, particularly in susceptible hospital patients. • Legionnaires' disease has an incubation period of 2 to 10 days (but up to 16 days has been recorded in some outbreaks). • Treatments exist, but there is currently no vaccine available for Legionnaires' disease. • Death occurs through progressive pneumonia with respiratory failure and/or shock and multi-organ failure. • Untreated Legionnaires' disease usually worsens during the first week.

Context: Argentina's mystery pneumonia outbreak identified as Legionellosis disease.

Q.34) Consider the following statements about National Single Window System

1. It is a digital platform to guide the investors to identify and apply for approvals as per their business requirements.
2. Invest India, under the guidance of the Department for Promotion of Industry and Internal Trade (DPIIT), manages this project.

Choose the **incorrect** statements:

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

Q.34) Solution (d)**Statement Analysis**

Statement 1	Statement 2
Correct	Correct
<ul style="list-style-type: none"> • The platform was soft launched in September 2021 by the Ministry of Commerce and Industry. • It is a one-stop digital platform that aims at allowing investors to apply for various pre-operations approvals required for commencing a business in the country. 	<ul style="list-style-type: none"> • Invest India, under the guidance of the Department for Promotion of Industry and Internal Trade (DPIIT), manages the National Single Window System project. • It is involved in conceptualizing and designing the portal, on boarding of the various Ministries and States, maintaining the portal, and monitoring the performance of the portal.

Context: As many as 16 states have integrated with National Single Window System (NSWS) so far with an aim to promote ease of doing business

Q.35) E-Daakhil portal, recently seen in news is for?

- a) Digital lending mechanism
- b) Consumer grievance redressal
- c) Unemployment Assistance
- d) Connecting with employees and employers

Q.35) Solution (b)

Option b**Correct**

- E-Daakhil portal was launched by National Consumer Dispute Redressal Commission (NCDRC) on 7th September, 2020, for online redressal of consumer grievances.
- The e-daakhil portal empowers the consumer and their advocates to file the consumer complaints along with payment of requisite fees online from anywhere for the redressal of their complaints. It also facilitates the consumer commissions to scrutinize the complaints online to accept, reject or forward the complaint to the concerned commission for further processing.

Context: E-daakhil portal emerging as an effective solution for aggrieved consumers who opts e-filing.

Q.36) Consider the following statements about National Credit Guarantee Trustee Company Ltd (NCGTC)

1. NCGTC is a private limited company incorporated under the Companies Act, 1956.
2. NCGTC is a wholly-owned company of the Government of India.
3. A 100% guarantee is provided by the NCGTC to Member Lending Institutions under Emergency Credit Line Guarantee Scheme.

Choose the **incorrect** statements:

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

Q.36) Solution (d)

Statement Analysis

Option d**Correct**

- NCGTC is a private limited company incorporated under the Companies Act, 1956 in 2014, established by the Department of Financial Services, Ministry of Finance, as a wholly owned company of the Government of India, to act as a common trustee company for multiple credit guarantee funds.
- ECLGS was rolled out in 2020 as part of the Centre's Aatmanirbhar package in response to the Covid-19 crisis.

- The objective was to support small businesses struggling to meet their operational liabilities due to the imposition of a nationwide lockdown.
- A 100% guarantee is provided by the National Credit Guarantee Trustee Company (NCGTC) to Member Lending Institutions (MLIs) - banks, financial institutions and Non-Banking Financial Companies (NBFCs).

Context: In an indication of the continuing distress in the MSME sector, one in every six loans disbursed under the ECLG Scheme launched as part of the Covid-19 relief package in May 2020 has turned bad in just 27 months.

Q.37) Consider the following statements about QRSAM system

1. It is a long range surface-to-air missile (SAM) system.
2. QRSAM has a fully automated Command and Control System.
3. It is primarily designed to provide a protective shield to moving armoured columns of the Army from enemy aerial attacks.

Choose the correct statements:

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

Q.37) Solution (b)

Statement Analysis

Statement 1	Statement 2	Statement 2
Incorrect	Correct	Correct
<ul style="list-style-type: none"> • Quick Reaction Surface-to-Air Missile system (QRSAM) • It is a short range surface-to-air missile (SAM) system 	<ul style="list-style-type: none"> • The QRSAM weapon ensemble which functions on the move consists of a fully automated command and control system. 	<ul style="list-style-type: none"> • It is primarily designed and developed by DRDO to provide a protective shield to moving armoured columns of the Army from enemy aerial attacks. • The entire weapon system has been configured on a mobile and manoeuvrable platform and is capable of providing air defence on the move.

		<ul style="list-style-type: none"> It has been designed for induction into the Army and has a range of 25 to 30 km.
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Context: Indian Army and DRDO conducted six flight tests of the Quick Reaction Surface to Air Missile (QRSAM) system off the Odisha coast.

Q.38) Consider the following statements

- A woman in Engineering, Science, and Technology (WEST) program is an initiative of NITI Aayog to provide a separate platform to scientifically inclined women researchers and scientists.
- Indian Science Technology and Engineering facilities Map (I-STEM) is a National Web portal for sharing Research and Development facilities.

Choose the correct statements:

- 1 only
- 2 only
- Both 1 and 2
- Neither 1 nor 2

Q.38) Solution (b)

Statement Analysis

Statement 1	Statement 2
Incorrect	Correct
<ul style="list-style-type: none"> The WEST programme will cater to women with a Science, Technology, Engineering, and Mathematics (STEM) background and empower them to contribute to the science, technology, and innovation ecosystem. Through the WEST initiative, I-STEM shall provide a separate platform to scientifically inclined women researchers, scientists, and technologists for pursuing research in basic or applied sciences in frontier areas of science and engineering. 	<ul style="list-style-type: none"> I-STEM is a National Web portal for sharing R&D (Research and Development) facilities. The portal facilitates researchers to access slots for the use of equipment, as well as to share the details of the outcomes, such as patents, publications and technologies.

Context: Recently, a new Indian Science Technology and Engineering facilities Map (I-STEM) initiative called “Women in Engineering, Science, and Technology (WEST)” was launched.

Q.39) Consider the following statements about Policy on Long-Term Leasing of Railway Land

1. Under the policy, the railway land can be now leased for cargo-related activities for up to 50 years.
2. The railway land can be now leased for cargo-related activities at 3% of the market value of land per annum.
3. The land could be used for setting up social infrastructures and for setting up solar plants.

Choose the correct statements:

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

Q.39) Solution (c)

Statement Analysis

Statement 1	Statement 2	Statement 3
Incorrect	Incorrect	Correct
<ul style="list-style-type: none"> • Under the policy, the railway land can be now leased for cargo-related activities for up to 35 years (as against five years earlier) 	<ul style="list-style-type: none"> • Under the policy, the railway land can be now leased for cargo-related activities at 1.5% of the market value of land per annum, down from 6% earlier. 	<ul style="list-style-type: none"> • Apart from these, land could also be used for setting up social infrastructures such as hospitals in public-private partnership (PPP) mode and for the establishment of schools through Kendriya Vidyalaya Sangathan. In these cases, the land license fee will be barely Re 1 per square meter per annum. • The policy also provides for use of railway land at a nominal cost for setting up solar plants.

Context: The Union Cabinet has approved a policy on long term leasing of Railway Land for implementing the PM Gati Shakti framework.

Q.40) Haleakala, a volcanic mountain recently seen in news is located in which of the following island?

- a) Reunion Island
- b) Kuril Islands
- c) Hawaiian Island
- d) Tonga Island

Q.40) Solution (c)

Option c

Correct

- The Inouye Solar Telescope has captured an image of the Sun's chromosphere a resolution of 18 kilometres.
- The Daniel K Inouye Solar Telescope (DKIST) is located at the Haleakala Observatory on the Hawaiian island of Maui.
- The DKIST was set up by the US National Science Foundation (NSF).
- According to the NSF, the Inouye Solar Telescope is the most powerful solar telescope in the world.

Haleakalā

- Soaring nearly three kilometers, above the Pacific Ocean, Haleakalā is Maui Island's largest volcanic mountain.
- Haleakalā is a high-elevation, shield volcano surrounded by ocean.
- This unique geography offers a site 10,023 feet above the clouds, with a clear blue sky and a stable atmosphere that is relatively free of dust.
- It is a near perfect place for solar astronomy.

Context: The Inouye Solar Telescope has captured an image of the Sun's chromosphere a resolution of 18 kilometres.

Q.41) Consider the following statements about Dara Shikoh

1. Dara Shikoh was favoured as a successor by his older sister, Princess Jahanara Begum.
2. He is known as a pioneer of the academic movement for interfaith understanding in India.
3. Majma-ul-Bahrain and Qissa Chahar Dervesh are his two works devoted to the cause of establishing connections between Hinduism and Islam.

Choose the correct statements:

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

Q.41) Solution (c)

Statement Analysis

Statement 1	Statement 2	Statement 3
Correct	Correct	Incorrect
<ul style="list-style-type: none"> • Dara (1615-59) was the eldest son of Shah Jahan and heir-apparent of the Mughal emperor Shah Jahan. • Dara was designated with the title Padshahzada-i-Buzurg Martaba (Prince of High Rank) and was favored as a successor by his father and his older sister, Princess Jahanara Begum. 	<ul style="list-style-type: none"> • He is described as a “liberal Muslim” who tried to find commonalities between Hindu and Islamic traditions. • He is known as a pioneer of the academic movement for interfaith understanding in India. He had a deep understanding and knowledge of major religions, particularly Islam and Hinduism. 	<ul style="list-style-type: none"> • His most important works, Majma-ul-Bahrain (Mingling of Two Oceans) and Surr-i-Akbar (Great Mystery), are devoted to the cause of establishing connections between Hinduism and Islam.

Context: Vice President calls Dara Shikoh as torchbearer of social harmony.

Q.42) Consider the following statements about Human Development Index (HDI)

1. It is released by United Nations Development Programme (UNDP).
2. The 3 dimensions of HDI are health, education and living standards.
3. The drop in India's HDI is attributed to drop to India's falling per capita income.

Choose the correct statements:

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

d) 1, 2 and 3

Q.42) Solution (a)

Statement Analysis

Statement 1	Statement 2	Statement 3
Correct	Correct	Incorrect
<ul style="list-style-type: none"> A report on the 2021 Human Development Index (HDI) is part of the Human Development Report 2021-2022 released by the United Nations Development Programme. 		<ul style="list-style-type: none"> India's latest HDI value of 0.633 places the country in the medium human development category, lower than its value of 0.645 in the 2020 report. The report attributes the drop in HDI from 0.645 in 2019 to 0.633 in 2021 to India's falling life expectancy — from 69.7 years to 67.2 years during the survey period.

Context: A report on the 2021 Human Development Index (HDI) is part of the Human Development Report 2021-2022 released by the United Nations Development Programme.

Q.43) Consider the following statements about Moxie experiment

- The experiment aims to produce oxygen from the Martian Carbon dioxide atmosphere.

2. It is launched as part of NASA's Curiosity Rover mission, a joint program by NASA and Japan Aerospace Exploration Agency (JAXA).

Choose the correct statements:

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

Q.43) Solution (a)

Statement Analysis

Statement 1	Statement 2
Correct	Incorrect
<ul style="list-style-type: none"> • NASA is preparing for human exploration of Mars, and MOXIE will demonstrate a way that future explorers might produce oxygen from the Martian atmosphere for propellant and for breathing. • The experiment aims to produce oxygen from the Martian carbon-dioxide atmosphere. 	<ul style="list-style-type: none"> • It was launched as part of NASA's Perseverance rover mission and has been successfully making oxygen from the planet's carbon-dioxide-rich atmosphere since it landed there in 2021.

Context: The Mars Oxygen In-Situ Resource Utilisation Experiment, or MOXIE, designed by researchers at MIT can produce oxygen at the rate of up to 10 grams per hour.

Q.44) Consider the following statements

- 1. Hilsa is a species of fish found only in River Padma in Bangladesh.
- 2. It is an anadromous fish, means fish born in freshwater, and lives most of its life in saltwater and return to freshwater to spawn.

Choose the **incorrect** statements:

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

Q.44) Solution (a)

Statement Analysis

Statement 1	Statement 2
Incorrect	Correct
<ul style="list-style-type: none"> Hilsa is a species of fish related to the herring, in the family Clupeidae. It is a very popular and sought-after food fish in the Indian Subcontinent, and is the national fish of Bangladesh and the state fish of West Bengal. The fish is found in 11 countries: Bangladesh, India, Myanmar, Pakistan, Iran, Iraq, Kuwait, Bahrain, Indonesia, Malaysia and Thailand. Bangladesh is the top hilsa-producing country in the world, followed by Myanmar and then India. 	<ul style="list-style-type: none"> The fish is marine; freshwater; brackish; pelagic-neritic; anadromous. Bangladesh had imposed a ban on export of Hilsa to India in 2012, but since 2019 has allowed relaxations on the export, particularly in the festival season.

Context: Delay in Teesta pact holding up Hilsa fish supply to India.

Q.45) Arrange the following from south to north

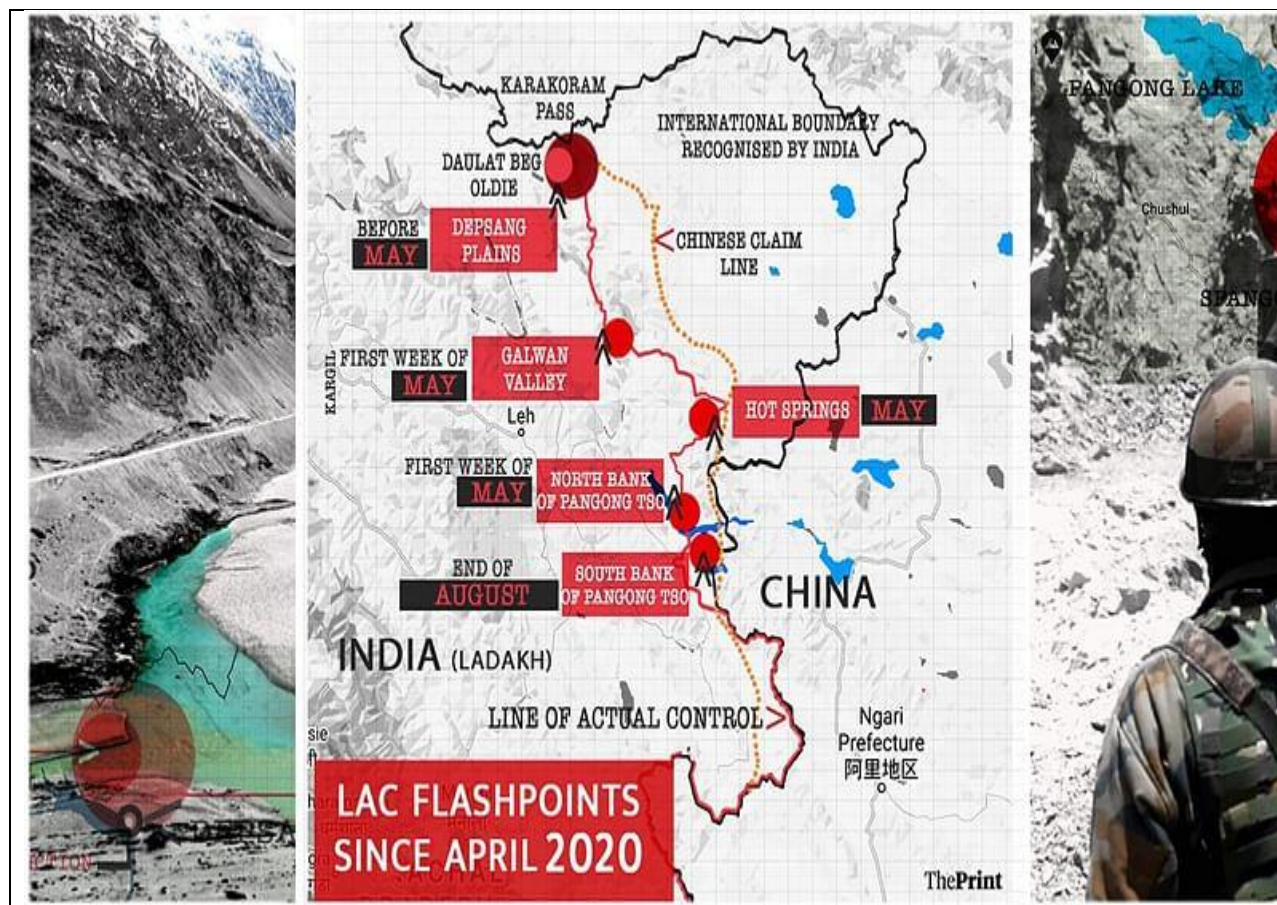
- Pangong Tso lake
- Hot Springs
- Galwan Valley
- Daulat Beg Oldie

Choose the correct code:

- 1-2-3-4
- 2-3-1-4
- 2-1-3-4
- 3-1-2-4

Q.45) Solution (a)

Option a
Correct



Context: India and China announced that their Armies have begun to disengage from Patrolling Point-15 in the Gogra-Hotsprings area of eastern Ladakh, marking a step forward towards ending the stand-off ongoing since May 2020.

Q.46) Consider the following statements about Startup SETU initiative

1. The initiative would connect start-ups in India to US-based investors and start-up ecosystem leaders.
2. The interaction in SETU will be supported through the mentorship portal, MAARG, under the Startup India initiative.

Choose the correct statements:

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

Q.46) Solution (c)**Statement Analysis**

Statement 1	Statement 2
Correct	Correct
<ul style="list-style-type: none"> • The Ministry of Commerce and Industry has recently launched the US Startup SETU initiative. • The initiative would connect start-ups in India to US-based investors and start-up ecosystem leaders. • It will provide mentorship and assistance in various areas including funding, market access and commercialization. • SETU is designed to break the geographical barriers between mentors based in US that are willing to invest in entrepreneurship and sunrise startups in India. 	<ul style="list-style-type: none"> • The interaction will be supported through the mentorship portal under the Startup India initiative Mentorship, Advisory, Assistance, Resilience, and Growth program (MAARG). • MAARG is a single-stop solution finder for startups in India. • The core functions of MAARG are to improve ease of access, use Artificial Intelligence for Matchmaking, schedule meetings virtually, host masterclasses, provide a custom dashboard for relevant information, analytics, features.

Context: The Ministry of Commerce and Industry has recently launched the US Startup SETU initiative.

Q.47) Consider the following statement about Acharya Vinoba Bhave

1. He presided over 1922 Gaya session of Indian National Congress.
2. He was chosen as the first Individual Satyagrahi, in 1940, against British Raj by Gandhiji in India.
3. Bhoodan Movement in 1930s was led by him.

Choose the correct statements:

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

Q.47) Solution (c)

Statement Analysis**Option c****Correct**

- Vinayak Narahari Bhave, born on 11th September 1895, Gagode, Bombay Presidency (now in Maharashtra).
- Eldest son of Narahari Shambhu Rao and Rukmini Devi
- One of India's best-known social reformers and a widely venerated disciple of Mohandas K. (Mahatma) Gandhi. Founder of the Bhoodan Yajna ("Land-Gift Movement").

Role in Freedom Struggle:

- Took part in programs of non-cooperation and especially the call for use of Swadeshi goods instead of foreign imports.
- In 1940, he was chosen as the first Individual Satyagrahi (an Individual standing up for Truth instead of a collective action) against British Raj by Gandhi in India.

Role in Social Work:

- Worked tirelessly towards eradicating social evils like inequality.
- Influenced by the examples set by Gandhi, he took up the cause of people who were referred to as Harijans by Gandhi.
- He adopted the term Sarvodaya from Gandhi which simply means "Progress for All".
- The Sarvodaya movement under him implemented various programs during the 1950s, the chief among which is the Bhoodan Movement.

Context: The Prime Minister paid tributes to Acharya Vinoba Bhave on his Jayanti.

Q.48) Consider the following statements about G7

1. It is an intergovernmental organisation that was formed in 1975.
2. Partnership for Global Infrastructure and Investment (PGII), an initiative to mobilize 600 billion dollars by 2027 for infrastructure development, is an initiative of G7.
3. India recently signed "2022 Resilient Democracies Statement" of G7 countries.

Choose the incorrect statements:

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

Q.48) Solution (d)

Statement Analysis

Statement 1	Statement 2	Statement 3
Correct	Correct	Correct
<ul style="list-style-type: none"> • It is an intergovernmental organisation that was formed in 1975. • The bloc meets annually to discuss issues of common interest like global economic governance, international security and energy policy. • The G7 countries are the UK, Canada, France, Germany, Italy, Japan and the US. • All the G7 countries and India are a part of G20. 	<ul style="list-style-type: none"> • In 48th summit, G7 announced the collective mobilization of 600 billion dollars by 2027 under Partnership for Global Infrastructure and Investment (PGII) to deliver “game-changing” and “transparent” infrastructure projects to developing and middle-income countries. 	<ul style="list-style-type: none"> • The “2022 Resilient Democracies Statement” was signed after Prime Minister attended a summit of the G7 countries. • Apart from India, the signatories to the statement were Germany, Argentina, Canada, France, Indonesia, Italy, Japan, Senegal, South Africa, the United Kingdom, the United States of America and the European Union • The statement called for “guarding the freedom, independence and diversity of civil society actors” and “protecting the freedom of expression and opinion online and offline”.

Context: Finance Ministers of all G7 countries as well as the European Union announced their plan to implement a price cap on oil exports from Russia.

Q.49) Consider the following statements

1. Nikshay Poshan Yojana supports every Tuberculosis (TB) Patient by providing a Direct Benefit Transfer (DBT) of Rs 500 per month for nutritional needs.
2. Ni-kshay Mitra Initiative provides a platform for donors (Ni-kshay mitras) to provide various forms of support to those undergoing TB treatment.

Choose the incorrect statements:

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

Q.49) Solution (d)

Statement Analysis

Statement 1	Statement 2
Correct	Correct
<ul style="list-style-type: none"> • The NPY was launched in 2018 by the Ministry of Health and Family Welfare. • It aims to support every Tuberculosis (TB) Patient by providing a Direct Benefit Transfer (DBT) of Rs 500 per month for nutritional needs. • Since its inception around Rs 1,488 crore has been paid to 5.73 million notified beneficiaries. 	<ul style="list-style-type: none"> • The Ni-kshay Mitra initiative forms a vital component of the Pradhan Mantri TB Mukh Bharat Abhiyaan. • This initiative seeks to ensure adequate and nutritional food for those being treated for tuberculosis. • Ni-kshay Mitra portal provides a platform for donors (Ni-kshay Mitras) to provide various forms of support to those undergoing TB treatment. • The donors could be a wide range of stakeholders from elected representatives, political parties, to corporates, NGOs, and individuals.

Context: President of India launched, Pradhan Mantri TB Mukh Bharat Abhiyaan, aimed at working towards TB elimination from the country by 2025.

Q.50) The Gender Snapshot 2022 report was launched by?

- a) United Nations Women and the UN Department of Economic and Social Affairs
- b) World Economic Forum
- c) UN Development Programme and United Nations Economic and Social Council
- d) World Bank

Q.50) Solution (a)

Option a**Correct**

- Recently, the report entitled “Progress on the Sustainable Development Goals (SDG): The Gender Snapshot 2022” was launched by United Nations (UN) Women and the UN Department of Economic and Social Affairs (UN DESA).

Findings

- The report highlighted that Sustainable Development Goal-5 (SDG-5), or achieving gender equality, will not be met by 2030 at the current pace of progress.
- By the end of 2022, around 383 million women and girls will live in extreme poverty (on less than USD 1.90 a day) compared to 368 million men and boys.
- It will take close to 300 years to achieve full gender equality at the current rate of progress.
- It will also take at least 40 years to achieve equal representation of women in national parliaments.
- Progress must be 17 times faster than last decade’s progress of the last decade, to eradicate child marriage by 2030.
- Globally, women lost an estimated USD 800 billion in income in 2020 due to the pandemic.
- More women and girls are now forcibly displaced than ever before, some 44 million women and girls by the end of 2021.

Context: The report entitled “Progress on the Sustainable Development Goals (SDG): The Gender Snapshot 2022” was launched by United Nations (UN) Women and the UN Department of Economic and Social Affairs (UN DESA).

Q.51) Consider the following statements about adoption of child in India

1. The procedure for child adoption in India is governed by the Hindu Adoption and Maintenance Act, 1956 (HAMA) and the Juvenile Justice Act, 2015.
2. The power to issue orders regarding adoption of children in the country lies with District Magistrates (DM).
3. Central Adoption Resource Authority (CARA) is a statutory body that is mandated to monitor and regulate in-country and inter-country adoptions.

Choose the correct statements:

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

d) 1, 2 and 3

Q.51) Solution (d)

Statement Analysis

Statement 1	Statement 2	Statement 3
Correct	Correct	Correct
<ul style="list-style-type: none"> Adoptions in India are governed by two laws the Hindu Adoption and Maintenance Act, 1956 (HAMA) and the Juvenile Justice Act, 2015. Both laws have their separate eligibility criteria for adoptive parents. 	<ul style="list-style-type: none"> District Magistrates (DM) have been empowered to give adoption orders instead of courts. The Parliament passed the Juvenile Justice (Care and Protection of Children) Amendment Bill, 2021 in order to amend the Juvenile Justice Act (JJ Act), 2015. The key changes include authorizing District Magistrates and Additional District Magistrates to issue adoption orders under Section 61 of the JJ Act by striking out the word “court”. This was done “in order to ensure speedy disposal of cases and enhance accountability,” according to a government statement. The District Magistrates have also been empowered under the Act to inspect child care institutions as well as evaluate the functioning of district child protection units, child welfare committees, juvenile justice boards, specialised juvenile police units, child care institutions etc. 	<ul style="list-style-type: none"> It is a specialised adoption agency and a statutory body of the Ministry of Women & Child Development. It functions as the nodal body for adoption of Indian children and is mandated to monitor and regulate in-country and inter-country adoptions.

Context: New adoption rules create confusion over implementation as they require transfer of adoption papers from courts to District Magistrates.

Q.52) Consider the following statements about Vembanad Lake

1. It is the longest lake in India.
2. The lake has its source in four rivers.
3. It is the second-largest Ramsar site in India only after the Sundarbans.
4. The Karikili Bird Sanctuary is located on the east coast of the lake.

Choose the incorrect statements:

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

Q.52) Solution (c)**Option c****Correct**

- This is the largest lake in Kerala and the longest Lake in India.
- Spanning several districts of Kerala and covering a territory of more than 2033.02 km².
- The lake has its source in four rivers, Meenachil, Achankovil, Pampa and Manimala
- It is separated from the Arabian Sea by a narrow barrier island and is a popular backwater stretch in Kerala.
- In 2002, it was included in the list of wetlands of international importance, as defined by the Ramsar Convention.
- It is the second-largest Ramsar site in India only after the Sundarbans in West Bengal.
- The Kumarakom Bird Sanctuary is located on the east coast of the lake.

Context: Vembanad lake, the second largest wetland system in India after the Sunderbans in West Bengal, is shrinking and its unique biodiversity is under threat of ecological decay despite it being declared as a Ramsar site 20 years ago.

Q.53) Consider the following statements about EU-India green hydrogen forum

1. It was jointly organized by the Ministry of Environment, Forest and Climate Change and European Investment Bank's (EIB) Climate Bank.
2. It provides a platform for the exchange of best practices, policy frameworks for renewable hydrogen.

Choose the correct statements:

- a) 1 only

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

Q.53) Solution (b)**Statement Analysis**

Statement 1	Statement 2
Incorrect	Correct
<p>EU-India green hydrogen forum</p> <ul style="list-style-type: none"> • The recent event was organized jointly by the Delegation of the European Union and the Ministry of New and Renewable Energy, in cooperation with the Confederation of Indian Industry (CII) and Hydrogen Europe. • The event brought together EU-India businesses to discuss possible joint projects on green hydrogen. 	<ul style="list-style-type: none"> • The Forum provides a platform for the exchange of best practices, policy frameworks and production and application technologies for renewable hydrogen as well as opportunities for EU-India cooperation in this area. • The forum also looks into the potential for international hydrogen trade, the role of international standards, including sustainable transportation. • It also provides for the legal requirements for the certification of renewable hydrogen and research and innovation.

Context: EU-India Green Hydrogen Forum was inaugurated recently.

Q.54) Consider the following statements about Hoysala Temple architecture

1. Multiple shrines of different deities were built around a central pillared hall.
2. These shrines are established intricately in the design of a star.
3. The temples were built on an upraised platform known as Jagati.

Choose the incorrect statements:

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

Q.54) Solution (d)

Statement Analysis**Option d****Correct**

Salient features of Hoysala Architecture

- Multiple shrines of different deities were built around a central pillared hall.
- Stellate plan: These shrines are established intricately in the design of a star.
- Soft soapstone was the main building material.
- Massive emphasis was laid on the decoration of the temple through sculptures.
- The temples were built on an upraised platform known as Jagati.
- The walls and stairs of the temple followed a zigzag pattern.
- Hoysala temples are sometimes called hybrid or vesara as their unique style seems neither completely Dravida nor Nagara, but somewhere in between.

Context: The Union Culture Ministry announced that the Hoysala Temples of Belur, Halebid and Somnathapura in Karnataka are India's official nominations for the UNESCO World Heritage List for the year 2022-2023.

Q.55) Suresh Prabhu Committee, recently seen in news is related to?

- To review the Ganga Water Treaty signed between India and Bangladesh
- To look into the issues of Minimum Support Price (MSP) and Natural Farming.
- To draft national cooperative policy document.
- To frame guidelines for the effective implementation of Pradhan Mantri TB Mukta Bharat Abhiyaan.

Q.55) Solution (c)**Option c****Correct**

- The National Level Committee was recently constituted under the Chairmanship of former Union Cabinet Minister, Shri Suresh Prabhakar Prabhu.
- The committee was mandated to draft a national cooperative policy document.
- The existing National Policy on Cooperatives, was formulated in 2002 with the objectives of facilitating all round development of cooperatives.

Context: The Centre announced a 47-member committee under former union minister Suresh Prabhu to prepare the national cooperation policy with the objective to promote cooperative-based economic development model.

Q.56) Consider the following statement about Changthang Wildlife Sanctuary

1. It is a high altitude wildlife sanctuary located in Tawang district of Arunachal Pradesh.
2. It is home to the Arunachal Pradesh's highest peak Kangto.
3. It is home to Tibetan Wild Ass and the rare Black-necked Crane.

Choose the incorrect statements:

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

Q.56) Solution (c)**Statement Analysis**

Statement 1	Statement 2	Statement 3
Incorrect	Incorrect	Correct
<ul style="list-style-type: none"> • This sanctuary is home to a diversity of flora and fauna and is spread over an area of 1,600 sq. km. • It is located in the Ladakhi Changthang Plateau in the Leh district of Jammu and Kashmir. 	<ul style="list-style-type: none"> • It boasts of the highest lake on earth, Tso Moriri. • It is also believed to include the world's highest village, Korzok Village that draws tourists for the Korzok Monastery. 	<ul style="list-style-type: none"> • From sighting the rare snow leopard, one can also spot a kiang or a wild ass, along with the dark-necked crane. • Other species found here are the Tibetan wolf, wild yak, bharal, brown bear and the marmot that seems to be present everywhere.

Context: The Standing Committee of the National Board for Wildlife (NBWL) has approved a proposal for the "upgrade" of an Indian Air Force base in Ladakh in a 508-hectare area in the Changthang Wildlife Sanctuary near the Line of Actual Control.

Q.57) Consider the following statements about United Nations Human Rights Council (UNHRC)

1. The Human Rights Council is an inter-governmental body within the United Nations system.
2. The Council is made up of 47 United Nations Member States which are elected by the UN General Assembly.

3. The council meets three times a year to examine human rights violations worldwide.

Choose the correct statements:

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

Q.57) Solution (d)

Statement Analysis

Statement 1	Statement 2	Statement 3
Correct	Correct	Correct
<ul style="list-style-type: none"> • The Human Rights Council is an inter-governmental body within the United Nations system. • Based in Geneva, the council was created in 2006 by the UNGA. 	<ul style="list-style-type: none"> • The Council is made up of 47 United Nations Member States which are elected by the UN General Assembly. 	<ul style="list-style-type: none"> • The Human Rights Council holds no fewer than three regular sessions a year, for a total of at least ten weeks. They take place in February-March, June-July and September-October. Sessions can be three, four or five weeks long, depending on the programme of work. • If one-third of the Member States requests it, the Human Rights Council can decide at any time to hold a special session to address human rights violations and emergencies.

Context: India called Sri Lanka out at United Nations Human Rights Council (UNHRC) for lack of measurable progress on the latter's commitments for a political solution to the ethnic Tamil minority issue.

Q.58) Consider the following statements

1. Out-of-pocket expenditure on healthcare is borne directly by a patient where insurance does not cover the full cost of the health service.
2. The out-of-pocket expenses borne directly by the patients have been declining for the past 10 years.
3. India's out-of-pocket expenditure is equal to global average of 18.1%.

Choose the incorrect statements:

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

Q.58) Solution (d)

Statement Analysis

Statement 1	Statement 2	Statement 3
Correct	Correct	Incorrect
<ul style="list-style-type: none"> • Out-of-pocket payments are expenditures borne directly by a patient where insurance does not cover the full cost of the health good or service. • They include cost-sharing, self-medication and other expenditure paid directly by private households. 	<ul style="list-style-type: none"> • India's total health expenditure went down from 3.9 per cent of the Gross Domestic Product (GDP) in 2013-14 to 3.2 per cent in 2018-19, according to the latest national health estimates. • Total health expenditure is the money spent by the government, people, private entities and external funding. • Out-of-pocket expenditure on healthcare by households — a key reason pushing Indians into poverty — has declined by 16 percentage points, from 64.2 per cent to 48.2 per cent in the same period. 	<ul style="list-style-type: none"> • Out-of-pocket expenditure remains significantly higher than the global average, which stands at 18.1 per cent in 2019, as per the World Bank.

Context: The latest National Health Accounts (2018-19) was released recently.

Q.59) Consider the following statements about Index Fund

1. An index fund is a portfolio of stocks or bonds designed to mimic the composition and performance of a financial market index.
2. Index funds seek to match the risk and return of the market based on the theory that in the long term, the market will outperform any single investment.

Choose the correct statements:

- a) 1 only

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

Q.59) Solution (c)**Statement Analysis**

Statement 1	Statement 2
Correct	Correct
<ul style="list-style-type: none"> • An index fund is a type of mutual fund or exchange-traded fund (ETF) with a portfolio constructed to match or track the components of a financial market index, such as the Standard & Poor's 500 Index (S&P 500). • An index fund is a portfolio of stocks or bonds designed to mimic the composition and performance of a financial market index. 	<ul style="list-style-type: none"> • Index funds have lower expenses and fees than actively managed funds. • Index funds follow a passive investment strategy. • Index funds seek to match the risk and return of the market based on the theory that in the long term, the market will outperform any single investment.

Context: Investing in an index fund has been an encouraging trend over the last couple of years. Over the previous year, the index fund's assets under management have seen a 259 per cent rise to Rs. 94,589.5 crore from Rs 26,332.7 crore on July 31, 2021.

Q.60) The multinational Exercise Kakadu – 2022, recently seen in news is hosted by?

- a) South Korea
- b) South Africa
- c) Australia
- d) Vietnam

Q.60) Solution (c)

Option c
Correct
INS Satpura and a P8 I Maritime Patrol Aircraft of the Indian Navy reached Darwin in Australia on 12 Sep 22, for participation in the multinational Exercise Kakadu – 2022, hosted by the Royal Australian Navy.

Context: Royal Australian Navy to host the multinational Exercise Kakadu – 2022

Q.61) Consider the following statements

1. India is the world's second largest producer of natural rubber.
2. Rubber-growing states of India are Kerala, Meghalaya and Tripura.
3. The Rubber Board is a statutory organization under the administrative control of Ministry of Commerce and Industry.

Choose the correct statements:

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

Q.61) Solution (c)**Statement Analysis**

Statement 1	Statement 2	Statement 3
Incorrect	Correct	Correct
<ul style="list-style-type: none"> • India is currently the world's fifth largest producer of natural rubber while it also remains the second biggest consumer of the material globally. 	<ul style="list-style-type: none"> • Traditional rubber-growing states comprising Kerala and Tamil Nadu account for 81% of production. Major non-traditional rubber growing regions are the North Eastern states of Tripura, Assam and Meghalaya, Odisha, Karnataka, Maharashtra and West Bengal. 	<ul style="list-style-type: none"> • The Rubber Board is a statutory organization constituted under Section (4) of the Rubber Act, 1947 and functions under the administrative control of Ministry of Commerce and Industry. • The Board is headed by a chairman appointed by the Central Government and has 28 members representing various interests of natural rubber industry. • The Board's headquarters is located at Kottayam in Kerala. • The Board is responsible for the development of the rubber industry in the country

Context: National Consortium of Regional Federations of Rubber Producer Societies India, an umbrella organisation for rubber growers, held a day-long protest because fall in prices of rubber.

Q.62) Consider the following statements about DART Mission

1. The mission is to test the new technology to be prepared in case an asteroid heads towards Earth in the future.
2. DART will be the first demonstration of the kinetic impactor technique to change the motion of an asteroid in space.

Choose the correct statements:

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

Q.62) Solution (c)

Statement Analysis

Statement 1	Statement 2
Correct	Correct
<ul style="list-style-type: none"> • NASA will launch its first planetary defense test mission named the Double Asteroid Redirection Test (DART). • The mission is to test the new technology to be prepared in case an asteroid heads towards Earth in the future. • The aim is to test the newly developed technology that would allow a spacecraft to crash into an asteroid and change its course. 	<ul style="list-style-type: none"> • DART will be the first demonstration of the kinetic impactor technique to change the motion of an asteroid in space. • The target of the spacecraft is a small moonlet called Dimorphos (Greek for “two forms”). • Dimorphos orbits a larger asteroid named Didymos (Greek for “twin”). • It is a suicide mission and the spacecraft will be completely destroyed. • The collision is expected to take place between 26th September and 1st October, 2022.

Context: NASA's DART (Double Asteroid Redirection Test) spacecraft is scheduled to crash into the asteroid Dimorphos on September 26.

Q.63) Consider the following statements

1. A windfall tax is a surtax imposed by governments on businesses or economic sectors that have benefited from economic expansion.
2. As per the convention of OECD a windfall tax cannot be imposed on an individual.
3. Recently, Central government introduced a windfall profit tax on domestic crude oil production.

Choose the correct statements:

- a) 1 and 2
- b) 1 and 3
- c) 1, 2 and 3
- d) None

Q.63) Solution (b)**Statement Analysis**

Statement 1	Statement 2	Statement 3
Correct	Incorrect	Correct
<ul style="list-style-type: none"> • A windfall tax is a tax levied by governments against certain industries when economic conditions allow those industries to experience above-average profits. 	<ul style="list-style-type: none"> • Windfall taxes may also apply to individuals who suddenly become enriched from receiving a significant sum of money through a gift, inheritance, or through game show, gambling or lottery winnings. 	<ul style="list-style-type: none"> • Recently Central government on July 1, introduced a windfall profit tax of ₹23,250 per tonne on domestic crude oil production

Context: Union Finance Minister defends the move to impose windfall tax on domestic crude oil production.

Q.64) Consider the following statements about CRISPR-Cas9

1. It replicates natural defence mechanism in bacteria to fight virus attacks, using a special protein called Cas9.
2. CRISPR technology does not involve the introduction of any new gene from the outside.
3. Sickle cell anaemia is the first disease that is being targeted for CRISPR-based therapy in India.

Choose the incorrect statements:

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

Q.64) Solution (d)**Statement Analysis**

Statement 1	Statement 2	Statement 3
Correct	Correct	Correct
<ul style="list-style-type: none"> • Clustered Regularly Interspaced Short Palindromic Repeats (CRISPR) is a gene editing technology, which replicates natural defence mechanism in bacteria to fight virus attacks, using a special protein called Cas9. 	<ul style="list-style-type: none"> • It usually involves the introduction of a new gene, or suppression of an existing gene, through a process described as genetic engineering. • CRISPR technology does not involve the introduction of any new gene from the outside. • CRISPR-Cas9 technology is often described as 'Genetic Scissors'. 	<ul style="list-style-type: none"> • India approved a 5-year project to develop Clustered Regularly Interspaced Short Palindromic Repeats (CRISPR) to cure sickle cell anaemia in 2021. • Sickle cell anaemia is the first disease that is being targeted for CRISPR-based therapy in India. • The pre-clinical phase (trials on animal subjects) is about to begin.

Context: Over the last 3 years, the gene-editing technology with near unlimited potential has produced flawless results in clinical trials. India has approved a 5-year project to develop CRISPR to cure sickle cell anaemia.

Q.65) Exercise Yudh Abhyas, is a Joint Military Exercise between India and?

- a) France
- b) Nepal
- c) USA
- d) Russia

Q.65) Solution (c)

Option c

Correct

- While the drill is yet to be officially confirmed, it is anticipated that the two countries will participate in the 18th edition of the “Yudh Abhyas” at Auli in Uttarakhand in October 2022, some 100km from the Line of Actual Control (LAC).

Context: China opposed the war games between India and the US near the disputed Sino-India border, saying it's an interference in the bilateral boundary issue.

Q.66) Consider the following statements

1. The criteria followed for specification of a community as a Scheduled Tribe are spelt out in the Constitution.
2. The process to include tribes in the ST list begins with the recommendation from the respective State governments.
3. The approval of the National Commission for Scheduled Tribes is required before the list is sent to the Union Cabinet for a final decision.

Choose the correct statements:

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

Q.66) Solution (b)**Statement Analysis**

Statement 1	Statement 2	Statement 3
Incorrect	Correct	Correct
Criteria for inclusion in ST List <ul style="list-style-type: none"> • The criteria presently followed for specification of a community as a Scheduled Tribe are: • indications of primitive traits; distinctive culture; geographical isolation; shyness of contact with the community at large; and backwardness. 	<ul style="list-style-type: none"> • The process to include tribes in the ST list begins with the recommendation from the respective State governments. 	<ul style="list-style-type: none"> • These recommendations are then sent to the Tribal Affairs Ministry, which reviews and sends them to the Registrar General of India for approval. • This is followed by the approval of the National Commission for Scheduled Tribes before the list is sent to the Cabinet for a final

<ul style="list-style-type: none"> • However, these criteria are not spelt out in the Constitution. 		decision.
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Context: The Union Cabinet chaired by Prime Minister approved the inclusion of tribes of five states in the Scheduled Tribes (ST) category.

Q.67) Consider the following statements about Board of Trade

1. The Board of Trade (BOT) been reconstituted by merging Council for Trade Development and Promotion with Board of Trade in 2021.
2. This Board advises the Government on policy measures connected with the Foreign Trade Policy.
3. It provides a platform to state governments and UTs for articulating state-oriented perspectives on Trade Policy.

Choose the incorrect statements:

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

Q.67) Solution (b)

Statement Analysis

Statement 1	Statement 2	Statement 3
Incorrect	Correct	Correct
<ul style="list-style-type: none"> • The Board of Trade (BOT) been reconstituted by merging Council for Trade Development and Promotion with Board of Trade in 2019. 	<ul style="list-style-type: none"> • This Board advises the Government on policy measures connected with the Foreign Trade Policy in order to achieve the objectives of boosting India's trade. 	<ul style="list-style-type: none"> • It provides a platform to state governments and UTs for articulating state-oriented perspectives on Trade Policy to boost manufacturing and exports.

Context: Union Minister of Commerce and Industry Shri Piyush Goyal chaired the first meeting of the newly reconstituted Board of Trade.

Q.68) Consider the following statements

1. A Traffic Separation Scheme (TSS) area is an area in the sea where navigation of ships is highly regulated.
2. They are complied with by all vessels out at sea as conformity to it is mandatory as per Rule 10 of the COLREGs Convention, 1972.

Choose the incorrect statements:

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

Q.68) Solution (d)**Statement Analysis**

Statement 1	Statement 2
Correct	Correct
<ul style="list-style-type: none"> • Traffic Separation Scheme (TSS) is a routing measure aimed at the separation of opposing streams of traffic by appropriate means and by the establishment of traffic lanes. • A TSS area is an area in the sea where navigation of ships is highly regulated. • Each TSS is designed to create lanes in the water with ships in a specific lane all travelling in (roughly) the same direction. 	<ul style="list-style-type: none"> • TSSs are indicated on an admiralty chart in purple, one that has been touched upon even by those starting out their career at sea in all probability. • These are imaginary lines that don't have actual representation through borders on location. • But they are complied with by all vessels out at sea as conformity to it is mandatory as per Rule 10 of the Convention on the International Regulations for Preventing Collisions at Sea, 1972 (COLREGs).

Context: The Mediterranean Shipping Company (MSC) - world's largest container carrier - has taken the lead by re-routing its ships to keep away from colliding the blue whales.

Q.69) Which among the following grant is/are provided by International Financial Services Centres Authority (FinTech Incentive) Scheme 2022?

1. Proof of Concept (PoC) grant
2. Accelerator Grant

3. Sandbox grant
4. Incubator grant

Choose the correct code:

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

Q.69) Solution (d)

Option d

Correct

International Financial Services Centres Authority (FinTech Incentive) Scheme 2022

- The International Financial Services Centres Authority (IFSCA), with an overall objective to promote the establishment of a world-class FinTech Hub, at GIFT International Financial Services Centre (IFSC) in India.
- It launched the IFSCA (FinTech Incentive) Scheme for providing financial support to FinTech activities in the form of specific grant(s).
- FinTech Start-up grant- This grant shall be utilized for developing a product or a service and related 'go-to market' initiatives for a start-up with a novel FinTech idea or solution with a focus on converting the idea into an MVP.
- Proof of Concept (PoC) grant- This grant shall be utilized for the purpose of conducting a PoC by an early or mature FinTech Entity (FE) in domestic market or overseas.
- Sandbox grant- This grant shall be utilized by FEs to experiment with innovative products or services in a sandbox.
- Green FinTech Grant- This grant shall be utilized towards developing solutions facilitating sustainable finance and sustainability linked finance, including 'Environmental, Social and Governance (ESG)' investments.
- Accelerator Grant- This grant shall be utilized for supporting accelerators at the IFSC for capacity building, build capabilities around mentors, bringing investors, bringing more projects or PoC, tie ups, etc.
- Listing Support Grant - The grant shall be utilized for supporting Domestic FE aspiring to go for listing on stock exchanges recognised by the Authority.

Context: The International Financial Services Centres Authority (IFSCA), launched the IFSCA (FinTech Incentive) Scheme for providing financial support to FinTech activities in the form of specific grant(s).

Q.70) Lake Kuk, recently seen in news is located in?

- a) Cameroon
- b) Togo
- c) Ghana
- d) Nigeria

Q.70) Solution (a)

Option a

Correct

Cameroon Volcanic Line

- A sudden change in the colour and smell of Lake Kuk, in north-west Cameroon, has caused panic among the locals. Fears are driven by an incident that happened 36 years ago at Lake Nyos.
- Both Lake Kuk and Nyos are crater lakes located in a region of volcanic activity known as the Cameroon Volcanic Line.
- The Cameroon volcanic line consists of a string of volcanoes that extend from the Atlantic Ocean into Republic of Cameroon.
- The volcanoes here cross the oceanic-continental boundary.
- Incidents - Around 36 years ago, Lake Nyos emitted lethal gases (mainly carbon dioxide) that was released from the Earth's mantle.
- This carbon dioxide gas had been accumulating at the bottom of the lake for centuries.
- Two years earlier, Lake Monoum, about 100km south-west of Lake Nyos, killed 37 people.
- There are 45 crater lakes in the Cameroon volcanic line that could contain lethal amounts of gases.

Context: A sudden change in the colour and smell of Lake Kuk, in north-west Cameroon, has caused panic among the locals.

Q.71) Consider the following statements about Financial Stability and Development Council (FSDC)

1. It is an apex statutory body constituted by the Government of India in 2000.

2. Union Finance Minister is the chairperson of the council.

Choose the correct statements:

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

Q.71) Solution (b)

Statement Analysis

Statement 1	Statement 2
Incorrect	Correct
<ul style="list-style-type: none"> • It is an apex-level body constituted by the Government of India (not a statutory body) in 2010. • It has been established under the Financial Stability Division of the Department of Economic Affairs (DEA), Ministry of Finance. 	<ul style="list-style-type: none"> • Chairperson: The Union Finance Minister of India. The Chairperson may invite any person whose presence is deemed necessary for any of its meetings. <p>Members:</p> <ul style="list-style-type: none"> • Governor Reserve Bank of India (RBI), • Finance Secretary and/or Secretary, Department of Economic Affairs (DEA), • Secretary, Department of Financial Services (DFS), • Secretary, Ministry of Corporate Affairs, • Secretary, Ministry of Electronics and Information Technology, • Chief Economic Advisor, Ministry of Finance, • Chairmans of regulatory bodies like Securities and Exchange Board of India (SEBI), Insurance Regulatory and Development Authority (IRDA), Pension Fund Regulatory and Development Authority (PFRDA), Insolvency and Bankruptcy Board of India (IBBI). • Secretary of the Council: Additional Secretary, DEA, Ministry of Finance.

Context: Recently, the 26th meeting of Financial Stability and Development Council (FSDC) was chaired by the Union Finance Minister.

Q.72) Consider the following statements about Green Fins Hub

1. It is the first-ever global marine tourism industry platform for diving and snorkelling operators worldwide.
2. It was developed by The Reef-World Foundation in partnership with the International Organization for Sustainable Development.
3. Operators will receive environmental scores based on a detailed online self-evaluation and progress made on their action plans.

Choose the incorrect statements:

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

Q.72) Solution (c)**Statement Analysis**

Statement 1	Statement 2	Statement 3
Correct	Incorrect	Correct
<ul style="list-style-type: none"> • The Green Fins Hub is the first-ever global marine tourism industry platform for diving and snorkelling operators worldwide. 	<ul style="list-style-type: none"> • It was developed by The Reef-World Foundation in partnership with the United Nations Environment Programme (UNEP). 	<ul style="list-style-type: none"> • Throughout every year of membership, operators will receive environmental scores based on a detailed online self-evaluation and progress made on their action plans. • Green Fins Certified Members will continue to be assessed annually and trained in person at their operation. • The assessment process will continue to be based on set criteria using a scoring system (0-330 point system, with a low score implying low impact of a business on coral reefs). • There will be a minimum threshold (>200 of a maximum environmental impact score) for becoming a Green Fins Certified Member. • A ranking of bronze, silver or gold

		certified members will be given according to performance.
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Context: The UN Environmental Programme (UNEP), along with the Reef-World Foundation, launched the Green Fins Hub.

Q.73) Consider the following statements about Development Financial Institution (DFI)

1. The DFI status helps a financial institution access foreign funding, and loans easily and in higher quantum, as compared to a public financial institution (PFI).
2. Power Finance Corporation (PFC) and Rural Electrification Corporation (REC) were recently accorded DFI status.
3. Unlike banks, DFIs do not accept deposits from people.

Choose the correct statements:

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

Q.73) Solution (b)

Statement Analysis

Statement 1	Statement 2	Statement 3
Correct	Incorrect	Correct
<ul style="list-style-type: none"> The DFI status helps a financial institution (FI) access foreign funding, grants and loans easily and in higher quantum, as compared to a public financial institution (PFI) 	<ul style="list-style-type: none"> The Union Ministry of Power has sought the status of Development Financial Institution (DFI) for the Power Finance Corporation (PFC) and Rural Electrification Corporation (subsidiary of PFC). 	<ul style="list-style-type: none"> Unlike banks, DFIs do not accept deposits from people. They source funds from the market, government, as well as multilateral institutions, and are often supported through government guarantees

Context: The Power Ministry has sought the DFI status for PFC from the Reserve Bank of India (RBI) under the National Bank for Financing Infrastructure and Development (NaBFID) Act, 2021.

Q.74) Which of the below given pair is/are correctly matched?

Tribe	State/UT
Narikoravan	Tamil Nadu
Kadu Kuruba	Kerala
Hatti	Himachal Pradesh
Binjiha	Madhya Pradesh

Choose the correct code:

- Only one pair is correct
- Only two pairs are correct
- Only three pairs are correct
- All pairs are correct

Q.74) Solution (b)

Option b

Correct

Tribes in ST list

- The Union Cabinet approved the addition of four tribes to the list of Scheduled Tribes, including those from Himachal Pradesh, Tamil Nadu and Chhattisgarh.
- The Hatti tribe in the Trans-Giri area of Sirmour district in Himachal Pradesh.
- The Narikoravan and Kurivikkaran hill tribes of Tamil Nadu .
- The Binjhia in Chhattisgarh, who were listed as ST in Jharkhand and Odisha but not in Chhattisgarh, were the communities newly added to the list.
- Cabinet approved a proposal to bring the Gond community residing in 13 districts of Uttar Pradesh, under the ST list from the Scheduled Caste list.
- This includes the five subcategories of the Gond community (Dhuria, Nayak, Ojha, Pathari, and Rajgond).
- The Cabinet approved 'Betta-Kuruba' as a synonym for the Kadu Kuruba tribe In Karnataka.

Context: The Union Cabinet approved the addition of four tribes to the list of Scheduled Tribes, including those from Himachal Pradesh, Tamil Nadu and Chhattisgarh.

Q.75) The government has recently constituted an expert panel under the head of M Damodaran for which of the following purposes?

- To develop international retail business at the International Financial Services Centre (IFSC).

- b) To report on the working of capital market infrastructure institutions (MIIs).
- c) To strengthen the capabilities of Capital market.
- d) To suggest ways for scaling up of Venture Capital /Private Equity investments.

Q.75) Solution (d)**Option d****Correct****Damodaran Committee**

- The government has constituted an expert panel to suggest ways for scaling up of VC/PE investments.
- The six-member panel will be headed by former Securities and Exchange Board of India (SEBI) chairman M Damodaran.
- The committee will comprehensively study, using a systems approach, the end-to-end frictions and potential accelerants from regulatory policy.
- Suggestions on taxation to facilitate ease of investing, as well as to encourage investments in India.
- The panel will also review issues, compliances and suggest simplifications and changes for further accelerating the growth of alternative capital to participate in the VC/PE industry.
- The committee has also been asked to suggest measures to further accelerate investments into start-ups and sunrise sectors.
- And to suggest forward looking measures and future ready regulatory practices, in addition to studying and emulating global best practices.

Context: The government has constituted an expert committee to examine and suggest appropriate measures to address regulatory and other issues to enable scaling up investments by venture capital and private equity investment.

Q.76) Consider the following statements about International Treaty on Plant Genetic Resources for Food and Agriculture (ITPGRFA)

1. It works under the aegis of International Fund for Agricultural Development (IFAD).
2. The objective of the treaty is to recognise the contribution of farmers to the diversity of crops.
3. India is not a signatory to the treaty.

Choose the incorrect statements:

- a) 3 only
- b) 1 and 3

- c) 2 and 3
- d) None

Q.76) Solution (b)**Statement Analysis**

Statement 1	Statement 2	Statement 3
Incorrect	Correct	Incorrect
<ul style="list-style-type: none"> • It works under the aegis of the Food and Agriculture Organisation of the United Nations. 	<p>Objective:</p> <ul style="list-style-type: none"> • Farmers' Contribution: To recognize the contribution of farmers to the diversity of crops, • Access and Benefit Sharing: Establish a global system to provide farmers, plant breeders and scientists with access to plant genetic materials, • Sustainability: To conserve and sustainably use plant genetic resources for food and agriculture, and fair and equitable sharing of the benefits arising out of their use, in harmony with the Convention on Biological Diversity. 	<ul style="list-style-type: none"> • It is also known as Seed Treaty as it is a comprehensive international agreement for ensuring food security through the conservation, exchange and sustainable use of the world's Plant Genetic Resources for Food and Agriculture (PGRFA). • India is a signatory to the treaty.

Context: India is going to host 9th session of the Governing Body of the International Treaty on Plant Genetic Resources for Food and Agriculture from 19th to 24th of this month.

Q.77) Consider the following statements East Asia Summit

1. Established in 2005, it is a forum of 18 regional leaders for strategic dialogue and cooperation on key challenges facing the Indo-Pacific region.
2. India is one of the founding members of the East Asia Summit.
3. It is an ASEAN-centred forum so it can only be chaired by an ASEAN member.

Choose the correct statements:

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

Q.77) Solution (a)**Statement Analysis**

Statement 1	Statement 2	Statement 3
Correct	Correct	Correct
East Asia Summit <ul style="list-style-type: none"> Established in 2005, it is a forum of 18 regional leaders for strategic dialogue and cooperation on the key political, security, and economic challenges facing the Indo-Pacific region. 	<ul style="list-style-type: none"> India is one of the founding members of the East Asia Summit. It comprises the ten member states of the ASEAN (Association of Southeast Asian Nations) which are Brunei, Cambodia, Indonesia, Laos, Malaysia, Myanmar, the Philippines, Singapore, Thailand, and Vietnam, along with 8 other countries namely Australia, China, Japan, India, New Zealand, the Republic of Korea, Russia and the USA. 	<ul style="list-style-type: none"> It is an ASEAN-centred forum so it can only be chaired by an ASEAN member.

Context: Minister of Commerce and Industry attended East Asia Summit Economic Ministers' Meeting in Siem Reap City of Cambodia.

Q.78) Consider the following statements

- The Andaman and Nicobar Islands is separated from each other by the 'Ten Degree Channel'.
- Shompens is the one of the Particularly vulnerable Tribal Groups (PTVGs) of the Great Nicobar island.
- Saddle peak in Little Nicobar is the highest peak.

Choose the incorrect statements:

- 2 only
- 2 and 3
- 3 only
- None

Q.78) Solution (c)**Statement Analysis**

Statement 1	Statement 2	Statement 3
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Correct	Correct	Incorrect
<ul style="list-style-type: none"> The Andaman & Nicobar Islands is located in the Indian Ocean, in the southern reaches of the Bay of Bengal, nearer to Indonesia and Thailand. This comprises of two island groups - the Andaman Islands and the Nicobar Islands - which separates the Andaman Sea to the east from the Indian Ocean. These two groups are separated by the 10° N parallel, the Andamans lying to the north of this latitude, and the Nicobars to the south. 	<p>Particularly vulnerable Tribal Groups (PTGs) who have been identified in the Andaman & Nicobar Islands. They are:-</p> <ul style="list-style-type: none"> Great Andamanese of Strait Island Onges of Little Andaman Jarawas of South and Middle Andaman Sentinelese of Sentinel Islands Shompens of Great Nicobar 	<ul style="list-style-type: none"> Saddle peak (737 m) in North Andaman is the highest peak.

Context: Union Jal Shakti Minister has declared Andaman and Nicobar Islands as India's first Swachh Sujal Pradesh.

Q.79) Which of the below given pairs is/are correctly matched?

Color Revolution	Country
Jasmine Revolution	Kyrgyzstan
Orange Revolution	Ukraine
Tulip Revolution	Tunisia
Rose Revolution	Iraq

Choose the correct code:

- Only one pair is correct
- Only two pairs are correct
- Only three pairs are correct
- All pairs are correct

Q.79) Solution (a)

Option a
Correct
<ul style="list-style-type: none"> Colour revolutions refer to a series of uprisings that first began in former communist nations in Eastern Europe in the early 2000s, but are also used in reference to popular movements in the Middle East and Asia.

- Most have involved large-scale mobilisation on the streets, with demands for free elections or regime change, and calls for removal of authoritarian leaders.
- Orange Revolution: It refers to a series of protests that occurred in Ukraine between November 2004 and January 2005.
- Tulip Revolution: Also called the First Kyrgyz Revolution, the movement led to the ouster of Kyrgyzstan's President Askar Akayev in early 2005.
- Jasmine Revolution: The popular uprising that occurred between December 2010 to January 2011 in Tunisia was in response to the underlying corruption, unemployment, inflation and lack of political freedoms in the country.
- Rose Revolution: The Rose Revolution in Georgia, following the disputed 2003 election, led to the overthrow of Eduard Shevardnadze and replacing him with Mikhail Saakashvili after new elections were held in March 2004. The Kmara civic resistance movement supported the Rose Revolution.

Context: Chinese President Xi Jinping appealed to Russia, India, and other members of the Shanghai Cooperation Organisation (SCO) to cooperate with each other in order to prevent foreign powers from destabilising their countries by inciting “colour revolutions”.

Q.80) Samarkand, recently seen in news is located in?

- a) Afghanistan
- b) Iran
- c) Uzbekistan
- d) Kazakhstan

Q.80) Solution (c)

Option c

Correct

- Prime Minister participated in the 22nd Meeting of the Council of Heads of State of the SCO.
- Samarkand Declaration of the Council of Heads of State of SCO was released after the summit.
- After the summit, Uzbekistan handed over the rotating presidency of the SCO to India. India will host the next SCO summit as a chairman of organisation in 2023.

Context: Recently, Prime Minister visited Samarkand, Uzbekistan to attend the 22nd Meeting of the Council of Heads of State of the Shanghai Cooperation Organization (SCO)

Q.81) Consider the following statements about Asiatic Caracal

1. The most significant potential habitat for caracals are Rajasthan, Gujarat, Madhya Pradesh.
2. Its protection status is in endangered category under IUCN Red List.

Choose the correct statements:

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

Q.81) Solution (a)**Statement Analysis**

Statement 1	Statement 2
Correct	Incorrect
<ul style="list-style-type: none"> • They are found mostly in Rajasthan, Gujarat and Madhya Pradesh and are located in Kutch, the Malwa Plateau, the Aravalli hill range. • Besides India, the caracal is found in several dozen countries across Africa, the Middle East, Central and South Asia. 	Protection Status: <ul style="list-style-type: none"> • IUCN Red List: Least Concern • Wildlife Protection Act, 1972: Schedule I • CITES: Appendix I

Context: The caracal is on the verge of extinction in India and it is essential to find suitable areas to conserve it.

Q.82) Consider the following statements United Nation General Assembly

1. Each year, in September, the full UN membership meets in the General Assembly Hall in New York for the annual General Assembly session.
2. The President of the General Assembly is elected each year by assembly to serve a one-year term of office.
3. The theme of the 77th UNGA is 'A Watershed Moment: Transformative Solutions to Interlocking Challenges'.

Choose the correct statements:

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

d) 1 and 3

Q.82) Solution (c)

Statement Analysis

Statement 1	Statement 2	Statement 3
Correct	Correct	Correct
<ul style="list-style-type: none"> All 193 Member States of the UN are represented in the General Assembly, making it the only UN body with universal representation. Each year, in September, the full UN membership meets in the General Assembly Hall in New York for the annual General Assembly session, and general debate, which many heads of state attend and address 	<ul style="list-style-type: none"> The President of the General Assembly is elected each year by assembly to serve a one-year term of office. 	<ul style="list-style-type: none"> The theme of the 77th UNGA is 'A Watershed Moment: Transformative Solutions to Interlocking Challenges'.

Context: External Affairs Minister arrived in New York to participate in the 77th Session of the United Nations General Assembly.

Q.83) Consider the following statements about Corporate Social Responsibility

- India is the first country in the world to mandate CSR spending along with a framework to identify potential CSR activities.
- The Act encourages companies to spend 5% of their average net profit in the previous three years on CSR activities.
- The contributions to the PM CARES Fund will qualify as Corporate Social Responsibility.

Choose the correct statements:

- 1 only
- 1 and 3
- 1, 2 and 3
- 2 and 3

Q.83) Solution (b)

Statement Analysis

Statement 1	Statement 2	Statement 3
Correct	Incorrect	Correct

<ul style="list-style-type: none"> • The term "Corporate Social Responsibility" in general can be referred to as a corporate initiative to assess and take responsibility for the company's effects on the environment and impact on social welfare. • In India, the concept of CSR is governed by clause 135 of the Companies Act, 2013. • India is the first country in the world to mandate CSR spending along with a framework to identify potential CSR activities. 	<ul style="list-style-type: none"> • The Act requires companies to set up a CSR committee which shall recommend a Corporate Social Responsibility Policy to the Board of Directors and also monitor the same from time to time. • The Act encourages companies to spend 2% of their average net profit in the previous three years on CSR activities. 	<ul style="list-style-type: none"> • The contributions to the Chief Minister's Relief Fund or the State relief fund will not qualify as Corporate Social Responsibility (CSR) expenditure, while any donation to the PM CARES Fund will.
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Context: Information and Broadcasting Minister Anurag Thakur has said that Indian companies have spent more than one trillion rupees in Corporate Social Responsibility (CSR) till March 2022.

Q.84) Consider the following statements about Swatch Sagar, Surakshit Sagar Campaign:

1. It is the longest running coastal cleanup campaign in the world with highest number of people participating in it.
2. A mobile app Eco Mitram has been launched to spread awareness about the campaign.

Choose the incorrect statements:

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

Q.84) Solution (d)

Statement Analysis

Statement 1	Statement 2
Correct	Correct

<ul style="list-style-type: none"> • It is a 75-day citizen-led campaign for improving ocean health through collective action. • The campaign has 3 strategic underlying goals that target transformation and environmental conservation through behavior change. • The three underlying goals of the campaign are to 1. Consume Responsibly 2. Segregate waste at home and 3. Dispose Responsibly. • The coastal cleanup drive will be carried out at 75 beaches across the country with 75 volunteers for every kilometre of the coastline. • It is the first-of-its-kind and longest running coastal cleanup campaign in the world with highest number of people participating in it. 	<ul style="list-style-type: none"> • A mobile app “Eco Mitram” has been launched to spread awareness about the campaign and also for the common people for voluntary registration for the beach cleaning activity.
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Q.85) INSPIRE Award, recently seen in news is aligned with which of the following initiative?

- a) SMILE
- b) Start-Up India
- c) Samarth Scheme
- d) Atal Innovation Mission

Q.85) Solution (b)

Option b
Correct
<p>INSPIRE (Innovation in Science Pursuit for Inspired Research) Award</p> <ul style="list-style-type: none"> • It is aligned with the ‘Start-up India’ initiative and is being executed by DST (Department of Science and Technology) with National Innovation Foundation – India (NIF), an autonomous body of DST. • Under this, the students are invited from all government or private schools throughout the country, irrespective of their educational boards (national and state). • Financial support of Rs 10,000 each would be provided so that they could develop prototypes of the ideas which they submitted for the scheme. • As a next step, they competed at respective District Level Exhibition and Project Competition (DLEPC) and State Level Exhibition and Project Competition (SLEPC) and finally National Level Exhibition and Project Competition (NLEPC).

Context: Recently, the 9th National Level Exhibition and Project Competition (NLEPC) for the INSPIRE Awards – MANAK (Million Minds Augmenting National Aspiration and Knowledge), has commenced.

Q.86) Consider the following statements

1. Under Article 341 of the Constitution, the President may “specify the castes, races or tribes, which shall be deemed to be Scheduled Castes (SC)”.
2. Only Dalits belonging to Hinduism, Sikhism and Buddhism are considered to be a member of the SC.
3. The rights of a person belonging to a Scheduled Tribe are independent of his/her religious faith.

Choose the incorrect statements:

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

Q.86) Solution (d)

Statement Analysis

Statement 1	Statement 2	Statement 3
Correct	Correct	Correct
<ul style="list-style-type: none"> • Under Article 341 of the Constitution, the President may “specify the castes, races or tribes or parts of or groups within castes, races or tribes which shall be deemed to be Scheduled Castes”. • The first order under this provision was issued in 1950, and covered only Hindus. • Following demands from the Sikh community, an order was issued in 1956, 	<ul style="list-style-type: none"> • The order was revised to state: “No person who professes a religion different from the Hindu, the Sikh or the Buddhist religion shall be deemed to be a member of Scheduled Caste.” • In other words, only Dalits belonging to Hinduism, Sikhism and the Buddhism 	<p>Does this religion-based bar apply to converted STs and OBCs as well?</p> <ul style="list-style-type: none"> • It does not. • The Department of Personnel and Training (DoPT) states, “The rights of a person belonging to a Scheduled Tribe are independent of his/her religious faith.” • Following the implementation of the Mandal Commission report,

including Sikhs of Dalit origin among the beneficiaries of the SC quota. • In 1990, the government acceded to a similar demand from Buddhists of Dalit origin.	will be considered to be a member of the Scheduled Caste (SC).	several Christian and Muslim communities have found place in the Central and state lists of OBCs.
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Context: The Centre is likely to soon decide on setting up a national commission to study the social, economic and educational status of Dalits who converted to religions other than Hinduism, Buddhism and Sikhism.

Q.87) Which of the below given pairs is/are correctly matched?

Doctrine of Supreme Court	Meaning
Doctrine of Eclipse	Any law which is inconsistent with fundamental rights is not invalid.
Doctrine of Laches	The Courts will not help people who sleep over their rights and help only those who are aware and vigilant about their rights.
Doctrine of Colourable Legislation	When a legislature does not have the power to make laws on a particular subject directly, it cannot make laws on it indirectly.

Choose the correct code:

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

Q.87) Solution (c)

Option c
Correct
Various doctrines of Supreme Court Doctrine of Pith and Substance – if the substance of legislation falls within a legislature’s lawful power, the legislation does not become unconstitutional just because it impacts an issue beyond its area of authority. Doctrine of severability – when some particular provision of a statute offends or is against a

constitutional limitation, but that provision is severable from the rest of the statute, only that offending provision will be declared void by the Court and not the entire statute.

Doctrine of Eclipse – any law which is inconsistent with fundamental rights is not invalid. It is not totally dead but overshadowed by the fundamental right. The inconsistency (conflict) can be removed by constitutional amendment.

Doctrine of Laches – emanates from the principle that the Courts will not help people who sleep over their rights and helps only those who are aware and vigilant about their rights. A party is said to be guilty of laches when they come to the Court to assert their rights after a considerable delay in that respect.

Doctrine of territorial nexus - It means that the object shall be located outside the territorial limits of the state and has a territorial connection with the state.

Doctrine of Colourable Legislation – It means when a legislature does not have the power to make laws on a particular subject directly, it cannot make laws on it indirectly.

Doctrine of Harmonious Construction – when two provisions of a legal text seem to conflict, they should be interpreted so that each has a separate effect and neither is redundant or nullified.

Context: Recently, a bench of five judges of the Supreme Court has been constituted so as to determine whether the Constitution 103rd Amendment Act, 2019 violates the doctrine of basic structure of the Constitution.

Q.88) Consider the following statements about UNESCO Global Network of Learning Cities (GNLC)

1. The UNESCO learning city status would ensure education for everyone in the chosen cities.
2. Nilambur, Warangal, and Thrissur are the UNESCO learning cities in India.

Choose the incorrect statements:

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

Q.88) Solution (d)

Statement Analysis

Statement 1	Statement 2
Correct	Correct
UNESCO Global Network of Learning Cities (GNLC)	• Warangal, Nilambur, and

<ul style="list-style-type: none"> • A learning city promotes lifelong learning for all. • Lifelong learning lays the foundation for sustainable, social, economic, and environmental development. • The UNESCO GNLC is an international network consisting of cities that successfully promote lifelong learning across their communities. • The UNESCO learning city status would ensure education for everyone in the chosen cities. 	<p>Thrissur have joined UNESCO Global Network of Learning Cities.</p>
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Context: Warangal, Nilambur, and Thrissur have joined UNESCO Global Network of Learning Cities.

Q.89) Consider the following statements about Peatlands

1. Peatlands occur in every climatic zone and sequester more carbon than any other type of terrestrial ecosystem.
2. Cuvette Centrale peatlands, in Congo basin is the world's largest tropical peatland complex.
3. Brazzaville Declaration, implements coordination between different government sectors to protect the benefits provided by peatland ecosystems.

Choose the correct statements:

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

Q.89) Solution (d)

Statement Analysis

Statement 1	Statement 2	Statement 3
Correct	Correct	Correct
<ul style="list-style-type: none"> • Peatlands are terrestrial wetland ecosystems in which waterlogged conditions prevent plant material from fully decomposing. • Consequently, the production 	<ul style="list-style-type: none"> • world's largest tropical peatlands- Cuvette Centrale region in Congo Basin 	<ul style="list-style-type: none"> • Brazzaville Declaration - It aims to implement coordination and cooperation between different government sectors to protect the

<p>of organic matter exceeds its decomposition, which results in a net accumulation of peat.</p> <ul style="list-style-type: none"> • In cool climates, peatland vegetation is mostly made up of Sphagnum mosses, sedges and shrubs and are the primary builder of peat. • In warmer climates graminoids and woody vegetation provide most of the organic matter. • Peatlands occur in every climatic zone and continent. 		<p>benefits provided by peatland ecosystems.</p> <ul style="list-style-type: none"> • The agreement is the beginning of a deep collaboration between Indonesia, covered by vast expanses of peatlands, and the Congo Basin.
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Context: The Central African Forests Commission, an intergovernmental organisation, came out with the report Congo Basin Forests - State of the Forests 2021.

Q.90) Bogibeel region, recently in news is located in?

- Ladakh
- Jammu and Kashmir
- Assam
- Arunchal Pradesh

Q.90) Solution (c)

Option c
Correct
<p>Projects in Bogibeel region</p> <ul style="list-style-type: none"> • The Two floating jetties at Bogibeel in Dibrugarh district and Guijan in Tinsukia district will be constructed as state-of-art terminals using the most advanced & updated technology. • Both the jetties are being constructed by IWAI over the National Waterways - 2 (NW-2), popularly known as River Brahmaputra. • Bogibeel Riverfront Passenger Jetty which has been developed by the Northeast Frontier Railways (NFR) as part of Riverfront Development near the Bogibeel bridge. • The Bogibeel Bridge is a combined road and rail bridge over the Brahmaputra River in the northeastern Indian state of Assam between Dhemaji district and Dibrugarh district.

Context: Union Minister of Ports, Shipping & Waterways (MoPSW), Sarbananda Sonowal launched multiple projects for the development of the Bogibeel region near Dibrugarh in Assam.

Q.91) Consider the following statements about LoRa technology

1. LoRa technology is a wireless modulation technique in the physical layer, allowing long-range communication using chirp spread spectrum.
2. It uses dedicated radios, which are not usually present in end-user devices, limiting interferences from other devices.
3. Banks can use this as their own dedicated private network instead of using a third party network which are presently based either on satellite link or wired (fibre).

Choose the incorrect statements:

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

Q.91) Solution (d)

Statement Analysis

Statement 1	Statement 2	Statement 3
Correct	Correct	Correct
<ul style="list-style-type: none"> • It is a new technology developed by the Institute for Development and Research in Banking Technology (IDRBT), an arm of the Reserve Bank of India (RBI). • LoRa technology is a wireless modulation technique in the 	<ul style="list-style-type: none"> • LoRa technology uses dedicated radios, which are not usually present in end-user devices, limiting interferences from other devices. 	<ul style="list-style-type: none"> • Banks can use this as their own dedicated private network instead of using a third party network which are presently based either on satellite link or wired (fibre). • As it can be owned by banks privately, there will be more security from cyber-attacks. Apart from being a more secure platform, LoRa network also allows easy recoverability and upgradation. • The last mile connectivity of the banking system can be

physical layer, allowing long-range communication using chirp spread spectrum.		expanded with the LoRa financial network.
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Context: In a first, IDRBT develops new low cost financial network to take banking to remote areas.

Q.92) Consider the following statements about Coffee Board

1. The Coffee Board is a statutory organization constituted under the Coffee Act, 1942.
2. It functions under the administrative control of the Ministry of Commerce and Industry, Government of India.
3. The head office of the Coffee Board is situated in Bangalore.
4. The board is headed by Director General of Foreign Trade.

Choose the correct statements:

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

Q.92) Solution (d)

Statement Analysis

Option d
Correct
<ul style="list-style-type: none"> • The Government of India established the 'Coffee Board' through a constitutional act "Coffee Act VII of 1942" • It is under the administrative control of Ministry of Commerce and Industry. • The Board comprises 33 members including the Chairman, who is the Chief Executive and appointed by the Government of India. • Role of Coffee Board: Coffee Board serves as the friend, philosopher and guide to the Coffee sector covering the entire value chain. The core activities are primarily directed towards research & development, transfer of technology, enhancement of production, quality improvement, export promotion and supporting development of Domestic market.

- The head office of the Coffee Board is situated in Bangalore.

Context: On the side lines of the annual conference of United Planters Association of Southern India, The Coffee Board is coming out with a sustainability code for Indian coffee.

Q.93) Consider the following statements about Prompt Corrective Action Framework

1. The objective of the framework is to enable Supervisory intervention by RBI at appropriate time.
2. The framework applies to all banks operating in India, including foreign banks.
3. The breach of any risk threshold enables the Reserve Bank to reconstruct or amalgamate a bank, with the approval of the Central government.

Choose the incorrect statements:

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

Q.93) Solution (d)

Statement Analysis

Statement 1	Statement 2	Statement 3
Correct	Correct	Correct
<ul style="list-style-type: none"> • The PCA framework enables supervisory intervention of RBI over Banks at an appropriate time and ensures effective market discipline. 	<ul style="list-style-type: none"> • The framework applies to all banks operating in India, including foreign banks operating through branches or subsidiaries based on breach of risk thresholds of identified indicators. • However, payments banks and small finance banks (SFBs) have been removed from the list of lenders where prompt 	<ul style="list-style-type: none"> • The breach of any risk threshold may result in the invocation of the PCA • RBI's Powers: • In governance-related actions, the RBI can supersede the board under Section 36ACA of the Banking Regulation Act, 1949. • Amendment to Section 45 of the BR Act enables the Reserve Bank to reconstruct or amalgamate a bank, with or without implementing a moratorium, with the approval of the Central

	corrective action can be initiated.	<p>government.</p> <ul style="list-style-type: none"> The RBI, as part of its mandatory and discretionary actions, may also impose appropriate restrictions on capital expenditure, other than for technological upgradation within Board approved limits, under the revised PCA.
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Context: After reviewing the performance of the Central Bank of India, The Reserve Bank of India (RBI) removed it from its Prompt Corrective Action Framework (PCAF).

Q.94) Consider the following statements

- Based the recommendations of Sitakant Mohapatra (2003) Committee, Government of India has fixed a set of criteria for inclusion of languages in the Eighth schedule.
- Bodo, Dogri, Khasi, and Santhali were added by the 92nd Amendment Act of 2003, to the Eighth schedule.

Choose the correct statements:

- 1 only
- 2 only
- Both 1 and 2
- Neither 1 nor 2

Q.94) Solution (d)

Statement Analysis

Statement 1	Statement 2
Incorrect	Incorrect
<ul style="list-style-type: none"> The earlier attempts, through the Pahwa (1996) and Sitakant Mohapatra (2003) Committees, to evolve such fixed criteria have been inconclusive. Government of India is conscious of the sentiments and requirements for inclusion of other languages in the Eighth Schedule. 	<ul style="list-style-type: none"> The Eighth Schedule to the Constitution consists of the following 22 languages: Assamese, Bengali, Gujarati, Hindi, Kannada, Kashmiri, Konkani, Malayalam, Manipuri, Marathi, Nepali, Oriya, Punjabi, Sanskrit, Sindhi, Tamil, Telugu, Urdu, Bodo, Santhali, Maithili and Dogri. Of these languages, 14 were initially

<ul style="list-style-type: none"> Such requests have to be considered keeping in mind these sentiments, and the other relevant considerations. 	<p>included in the Constitution.</p> <ul style="list-style-type: none"> Sindhi language was added by the 21st Amendment Act of 1967. Konkani, Manipuri, and Nepali were included by the 71st Amendment Act of 1992. Bodo, Dogri, Maithili, and Santhali were added by the 92nd Amendment Act of 2003 which came into force in 2004.
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Context: People belonging to the Kurmi community blocked railway tracks in various parts of Eastern India demanding their inclusion on the list of Scheduled Tribes (ST) and the inclusion of the Kurmali language in the Eighth Schedule of the Constitution.

Q.95) India Discrimination Report 2022, recently seen in was published by?

- International Labour Organization
- World Economic Forum
- Oxfam India
- NITI Aayog

Q.95) Solution (c)

Option c
Correct
<ul style="list-style-type: none"> Recently, Oxfam India Report stated that discrimination in India causes 100 percent of employment inequality faced by women in rural areas in the labour market and 98 percent in urban areas. Report's findings are based on Government's data on employment and labour from 2004-05 to 2019-20.

Context: It was recently published by Oxfam India.

Q.96) Consider the following statements

- India's first Dugong Conservation Reserve has been notified in Gulf of Mannar, Tamil Nadu.
- In India Dugong's are only found in the Gulf of Mannar region.
- Dugongs are the largest herbivorous marine mammals which primarily thrive on seagrass beds.
- Its protection status is in vulnerable category under IUCN Red List.

Choose the correct statements:

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

Q.96) Solution (b)**Statement Analysis**

Statement 1	Statement 2	Statement 3	Statement 4
Incorrect	Incorrect	Correct	Correct
<ul style="list-style-type: none"> • The country's first 'Dugong Conservation Reserve' has been notified in Tamil Nadu. • The move was aimed at conserving the endangered species as it would help protect and improve marine fauna. The reserve has been notified in Palk Bay. 	<ul style="list-style-type: none"> • They are found in over 30 countries and in India are seen in the Gulf of Mannar, Gulf of Kutch, Palk Bay, and the Andaman and Nicobar Islands. 	<ul style="list-style-type: none"> • Dugongs are the largest herbivorous marine mammals which primarily thrive on seagrass beds. • Conservation of these Dugongs would help protect and improve the seagrass beds which are also the breeding and feeding grounds for many fishes and marine fauna. 	Conservation Status: <ul style="list-style-type: none"> • IUCN Red List status: Vulnerable • Wild (Life) Protection Act, 1972: Schedule I • CITES: Appendix I

Context: The country's first 'Dugong Conservation Reserve' has been notified in Tamil Nadu.

Q.97) Consider the following statements about India Hypertension Control Initiative (IHCI)

1. It is a large-scale intervention under the National Health Mission (NHM).
2. IHCI is a collaborative initiative of the health ministry, Indian Council of Medical Research (ICMR), state governments and World Health Organization-India.
3. India won a United Nations award for its Hypertension Control Initiative.

Choose the incorrect statements:

- a) 1 only

- b) 3 only
- c) None
- d) 1 and 3

Q.97) Solution (c)**Statement Analysis**

Statement 1	Statement 2	Statement 3
Correct	Correct	Correct
<ul style="list-style-type: none"> • India won a UN award for its Hypertension Control Initiative. The initiative is a large-scale intervention under the National Health Mission (NHM). • Under the initiative, 3.4 million hypertensive people were identified and put on treatment at various government health facilities. 	<ul style="list-style-type: none"> • IHCI is a multi-partner initiative of the Ministry of Health and Family Welfare, Indian Council of Medical Research (ICMR), WHO Country Office for India and Resolve to Save Lives (Technical partner). 	<ul style="list-style-type: none"> • The award comes at a time when the WHO has estimated that one in every four adults in India suffers from hypertension and only 12 per cent of these adults have hypertension under control.

Context: India wins UN award for hypertension control initiative.

Q.98) Consider the following statements about Asia-Pacific Institute for Broadcasting Development (AIBD)

1. The Asia-Pacific Institute for Broadcasting Development (AIBD), established in 1977 under the auspices of UNESCO.
2. It is a unique regional inter-governmental organisation servicing members of the UNESCO in the field of electronic media development.
3. Currently India is heading the presidency of Asia-Pacific Institute for Broadcasting Development (AIBD).

Choose the correct statements:

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

Q.98) Solution (c)**Statement Analysis**

Statement 1	Statement 2	Statement 3
Correct	Incorrect	Correct
<ul style="list-style-type: none"> The Asia-Pacific Institute for Broadcasting Development (AIBD) was established in 1977 under the aegis of United Nations Educational, Scientific and Cultural Organization (UNESCO). 	<ul style="list-style-type: none"> It is a unique regional inter-governmental organisation servicing countries of the United Nations Economic and Social Commission for Asia and the Pacific (UN-ESCAP) in the field of electronic media development. Its secretariat is situated in Kuala Lumpur and is hosted by the Government of Malaysia. 	<ul style="list-style-type: none"> India's Presidency of the prestigious Asia-pacific Institute of Broadcasting Development (AIBD) has been extended for one more year. This was unanimously decided by the AIBD member countries at the two-day General Conference of the Institute held in New Delhi.

Context: India's Presidency of the prestigious Asia-pacific Institute of Broadcasting Development (AIBD) has been extended for one more year.

Q.99) Consider the following statements about PM CARES Fund

- The Fund is a public charitable trust with the Prime Minister as its Chairman.
- Contribution to PM - CARES Fund will qualify as Corporate Social Responsibility (CSR) Expenditure.
- Spending from both the PM CARES Fund does not require approval from Parliament.

Choose the correct statements:

- 1 and 3
- 1 and 2
- 1, 2 and 3
- 2 and 3

Q.99) Solution (c)**Statement Analysis**

Statement 1	Statement 2	Statement 3
Correct	Correct	Correct
<ul style="list-style-type: none"> • This Fund has been set up owing to a number of requests made by the people to support the government in the wake of the COVID-19 emergency. • The Fund is a public charitable trust with the Prime Minister as its Chairman. Other Members include Defence Minister, Home Minister and Finance Minister. • The Fund enables micro-donations as a result of which a large number of people will be able to contribute with the smallest of denominations. 	<ul style="list-style-type: none"> • The Ministry of Corporate Affairs has clarified that contributions by companies towards the PM-CARES Fund will count towards mandatory Corporate Social Responsibility (CSR) expenditure. 	<ul style="list-style-type: none"> • Spending from both the PM CARES Fund does not require approval from Parliament.

Context: Ratan Tata, Justice K.T. Thomas, Kariya Munda appointed trustees of PM CARES Fund.

Q.100) SPARSH initiative, recently seen in news is related to?

- Web-based system for processing the pension claims of defence pensioners without any external intermediary.
- World's Largest Online Free E-Learning Platform Portal to achieve the three cardinal principles of Education Policy viz., Access, Equity and Quality
- The Central Sector Scheme for Comprehensive Rehabilitation of persons engaged in Begging.
- To offer market-responsive and job-oriented National Skills Qualifications Framework (NSQF) specific upskilling programs to 10 lakh youth.

Q.100) Solution (a)

Option a
Correct
<ul style="list-style-type: none"> • SPARSH is a web-based system for processing the pension claims and crediting the pension directly into the bank accounts of defence pensioners without any external intermediary. • It has been designed to give Defence Pensioners a transparent view of their pension account, through an online portal which captures and maintains a complete history of

events and entitlements of the pensioner – right from the date of commencement of pension to the date of cessation of pension due to the last eligible beneficiary.

- This system is administered by the Defence Accounts Department through the Principal Controller of Defence Accounts (Pensions), Prayagraj and caters to all the three Services and allied organization.

Context: The Defence Accounts Department signed a MoU with Bank of Baroda and HDFC Bank, to onboard them as Service Centres under the System for Pension Administration (Raksha) (SPARSH) initiative, across more than 14,000 branches throughout India.

Q.101) Consider the following statements Hybrid Motor developed by ISRO

1. Unlike the conventional combinations, a hybrid motor uses liquid fuel and solid oxidizer.
2. The motor uses Hydroxyl-terminated polybutadiene (HTPB) as fuel and liquid oxygen (LOX) as the oxidizer.

Choose the incorrect 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
Incorrect	Correct
<ul style="list-style-type: none"> • It is developed by the Indian Space Research Organization (ISRO). • The hybrid motor is more efficient, greener and safer to handle and paves the way for new propulsion technologies for future missions. • The technology demonstration paves the way for hybrid propulsion-based sounding rockets and an exciting platform for vertical landing experiments for spent-stage recovery. • It is a hybrid motor which is a combination of solid fuel and liquid oxidizer. 	<ul style="list-style-type: none"> • The motor used Hydroxyl-terminated polybutadiene (HTPB) as fuel and liquid oxygen (LOX) as the oxidizer.

Context: Recently, with the assistance of the Liquid Propulsion Systems Center, the Indian Space Research Organization (ISRO) tested a hybrid motor successfully at the ISRO Propulsion Complex (IPRC), Mahendragiri.

Q.102) Consider the following statements about Dvorak technique

1. The Dvorak technique is a cloud pattern recognition technique based on the development and decay of the tropical cyclone.
2. It helps forecasters to do pattern recognition from the observed structure of the storm, locate its eye and estimate the intensity of the storm.
3. This tool cannot help make any predictions, measure wind or pressure parameters associated with the cyclone.

Choose the correct statements:

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

Q.102) Solution (a)

Statement Analysis

Statement 1	Statement 2	Statement 3
Correct	Correct	Correct
<p>The Dvorak technique is a cloud pattern recognition technique based on a concept model of the development and decay of the tropical cyclone.</p> <p>Through this statistical technique, scientists measure the cyclone's convective cloud pattern curved bands, eye and central dense or cold region and shear.</p> <p>It is the Dvorak technique which gives the best estimates of the cyclone intensity, a vital component while issuing weather warnings.</p>	<p>Dvorak technique helps forecasters to do a pattern recognition from the observed structure of the storm, locate its eye and estimate the intensity of the storm</p>	<p>This tool cannot help make any predictions, measure wind or pressure or any other meteorological parameters associated with the cyclone. But it is a guide to estimate the storm's intensity and possible intensification — which is crucial for local administration in planning evacuation measures of coastal or other nearby residents.</p>

Context: The American meteorologist Vernon Dvorak passed away at the age of 100. Dvorak was an American meteorologist best credited for developing the Dvorak (read as Do-rak) technique in the early 1970s.

Q.103) Consider the following statements about Puneet Sagar Abhiyan

1. It is a nationwide flagship campaign to clean sea shores of plastic & other waste material, while raising awareness about the importance of cleanliness.
2. It is jointly launched by Ministry of Environment, Forests and Climate Change and Ministry of Jal Shakti.

Choose the correct statements:

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

Q.103) Solution (a)

Statement Analysis

Statement 1	Statement 2
Correct	Incorrect
<ul style="list-style-type: none"> • It is a nationwide flagship campaign, initially for one month, to clean sea shores of plastic & other waste material, while raising awareness about the importance of cleanliness. • It was subsequently extended as a Pan-India round-the-year campaign to cover rivers and other water bodies as well. • Since the launch of 'Puneet Sagar Abhiyan', over 100 tons of plastic waste have been collected from nearly 1,900 locations by more than 12 lakh NCC cadets. 	<ul style="list-style-type: none"> • The National Cadet Corps (NCC) had in 2021, launched 'Puneet Sagar Abhiyan'. • Recently National Cadet Corps and United Nations Environment Program (UNEP) signed a Memorandum of Understanding (MoU) to tackle the issue of plastic pollution and achieve the universal goal of clean water bodies through 'Puneet Sagar Abhiyan'

Context: Recently National Cadet Corps and United Nations Environment Program (UNEP) signed a Memorandum of Understanding (MoU) to tackle the issue of plastic pollution and achieve the universal goal of clean water bodies through 'Puneet Sagar Abhiyan'.

Q.104) Consider the following statements

1. An order to the effect of the 'Maharatna' status is issued by the Department of Public Enterprises, Ministry of Finance.
2. The Board of a 'Maharatna' CPSE can make equity investments to undertake financial joint ventures and wholly-owned subsidiaries.
3. The status also allows Board to undertake mergers and acquisitions in India and abroad, subject to a ceiling.

Choose the incorrect statements:

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

Q.104) Solution (d)**Statement Analysis**

Statement 1	Statement 2	Statement 3
Correct	Correct	Correct
<ul style="list-style-type: none"> • An order to the effect of the 'Maharatna' status would be issued by the Department of Public Enterprises, under the Ministry of Finance. • The grant of 'Maharatna' status will impart enhanced powers to the company's Board while taking operational and financial decisions 	<ul style="list-style-type: none"> • The Board of a 'Maharatna' CPSE can make equity investments to undertake financial joint ventures and wholly-owned subsidiaries. 	<ul style="list-style-type: none"> • It can also undertake mergers and acquisitions in India and abroad, subject to a ceiling of 15% of the Net Worth of the concerned CPSE, limited to ₹5,000 crores in one project. • The Board can also structure and implement schemes relating to personnel and Human Resource Management and Training.

Context: The Rural Electrification Corporation Ltd (REC) has been accorded with the status of a 'Maharatna' Central Public Sector Enterprise.

Q.105) M.A. Khader committee, recently seen in news is related to?

- a) Reforms in School education
- b) Sub Categorization of Other Backward Classes

- c) Private Sector investment in Space sector
- d) Indigenisation of Defence sector

Q.105) Solution (a)

Option a
Correct
<ul style="list-style-type: none"> • The M.A. Khader committee on school education was set up by the government against the backdrop of the Right to Education Act to study various aspects of school education from preschool to higher secondary. • The first report of the Khader committee mostly pertained to structural changes in school education such as merger of the three directorates under the department. The second report focusses on academic matters.

Context: Recently, the second report of the M.A. Khader committee on school education was handed over to the government.

Q.106) Consider the following statements about Breakthrough Agenda Report 2022

1. It was launched during COP24 in Katowice, Poland.
2. Agenda report has been released by the Intergovernmental Panel on Climate Change and International Organization for Sustainable Development.
3. Agenda aims to make clean technologies the most affordable and attractive choice for all globally in the most polluting sectors by 2030.
4. India is not a signatory to this Agenda.

Choose the incorrect statements:

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

Q.106) Solution (c)

Statement Analysis

Statement 1	Statement 2	Statement 3	Statement 4
Incorrect	Incorrect	Correct	Incorrect
<ul style="list-style-type: none"> • It is a first-of-its-kind annual 	<ul style="list-style-type: none"> • The Breakthrough Agenda Report 	<ul style="list-style-type: none"> • The aim of this agenda is to 	<ul style="list-style-type: none"> • The Breakthrough

<p>progress report, requested by world leaders at the UN Climate Change Conference COP26 in November 2021 as part of the launch of the Breakthrough Agenda.</p>	<p>2022 was released by the International Energy Agency (IEA), the International Renewable Energy Agency (IRENA) and the UN Climate Change High-Level Champions, focusing on international collaboration to drive faster reductions in greenhouse gas emissions.</p>	<p>make clean technologies the most affordable, accessible and attractive choice for all globally in each of the most polluting sectors by 2030.</p>	<p>Agenda currently covers more than two-thirds of the global economy, with endorsement from 45 world leaders, including those of the G7, India and China.</p>
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Context: Recently, The Breakthrough Agenda Report 2022 was released by the International Energy Agency (IEA), the International Renewable Energy Agency (IRENA) and the UN Climate Change High-Level Champions, focusing on international collaboration to drive faster reductions in greenhouse gas emissions.

Q.107) Consider the following statements about Asian Palm Oil Alliance (APOA)

1. It is formed by four major palm oil exporting countries of Asia.
2. Its membership is limited to the countries which have at least 5% share in the global production of palm oil.
3. It was formed based on the idea to gain collective bargaining power and make imports sustainable.

Choose the correct statements:

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

Q.107) Solution (c)

Statement Analysis

Statement 1	Statement 2	Statement 3
Incorrect	Incorrect	Correct
<p>The apex edible oil industry associations from five major palm oil importing countries of Asia -- India, Pakistan, Sri Lanka, Bangladesh and Nepal -- have come together to form the Asian Palm Oil Alliance (APOA).</p> <p>The APOA aims is safeguarding the economic and business interests of the palm oil consuming countries and will work towards increasing the consumption of palm oil in member countries.</p>	<p>There is no such criterion.</p>	<p>It was formed based on the idea to gain collective bargaining power and make imports sustainable.</p> <p>The alliance will work to Change negative image of palm oil and ensure that it is recognized as a high-quality, economical, and healthy vegetable oil.</p> <p>Safeguard economic and business interests of palm oil consuming countries and increase its consumption in member countries.</p>

Context: APOA held its first general body meeting on the sidelines of the Globoil Summit being held at Agra, India and the next meeting is expected to be held in Indonesia early next year 2023.

Q.108) Consider the following statements

1. A radio altimeter is an instrument that is used in measuring the frequency and latency of 5G signals at the mobile signal towers.
2. C-Band spectrum is the middle of the radio spectrum with frequency bands of 3.7-3.98 GHz and it supports 5G services.

Choose the incorrect statements:

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

Q.108) Solution (a)**Statement Analysis**

Statement 1	Statement 2
Incorrect	Correct
<ul style="list-style-type: none"> A radio altimeter is an instrument that provides direct height-above-terrain information to various aircraft systems. The primary concern of the Directorate General of Civil Aviation (DGCA) emerges from the fact that these altimeters as well as a part of the 5G telecom services operate in the C-Band. 	<ul style="list-style-type: none"> C-band falls in the middle of the radio spectrum used for 5G networks. It refers to the frequency bands of 3.7–3.98 GHz. For telecom service providers, the C-Band presents a sweet spot for rolling out 5G services, ensuring coverage as well as high bandwidth, resulting in faster internet speeds. For aircraft operations, the use of altimeters in this band ensures highly precise measurements of the plane's altitude.

Context: the country's aviation safety regulator has written to the telecom department flagging concerns over the likely interference of 5G C-Band spectrum with aircraft radio altimeters.

Q.109) Consider the following statements about BrahMos Missile

- BrahMos is a three-stage missile with a two solid propellant booster engines and a liquid ramjet engine.
- It operates on the "Fire and Forget" principle.
- It is a multiplatform missile, meaning it can be launched from land, air, and sea.

Choose the correct statements:

- 1 and 2
- 2 and 3
- 1 and 3
- 1, 2 and 3

Q.109) Solution (b)

Statement Analysis

Option b
Correct
<ul style="list-style-type: none"> Name: BrahMos is named on the rivers Brahmaputra and Moskva. Multiplatform Missile: it can be launched from land, air, and sea and multi capability missile with pinpoint accuracy that works in both day and night irrespective of the

weather conditions

- BrahMos is a two-stage missile with a solid propellant booster engine.
- Its first stage brings the missile to supersonic speed and then gets separated.
- The liquid ramjet or the second stage then takes the missile closer to three times the speed of sound in cruise phase.
- The missile has a very low radar signature, making it stealthy, and can achieve a variety of trajectories.
- Fire and Forgets Principle: It operates on the “Fire and Forgets” principle i.e. it does not require further guidance after launch.
- Cruise missiles such as BrahMos, called “standoff range weapons”, are fired from a range far enough to allow the attacker to evade defensive counter-fire.

Context: The Defence Ministry signed a ₹1,700-crore contract with BrahMos Aerospace Pvt Ltd for 35 combat and three practice BrahMos supersonic surface-to-surface cruise missiles for two P-15B class of stealth guided missile destroyers of the Indian Navy.

Q.110) Ferghana valley, recently seen in news is located in?

- West Africa
- East Asia
- South Africa
- Central Asia

Q.110) Solution (d)

Option d

Correct

- Historically, the Kyrgyz and Tajik populations enjoyed common rights over natural resources.
- Ferghana valley continues to be a site of struggle and frequent violent outbursts, with the location consisting primarily of Tajiks, Kyrgyz, and Uzbeks, who have historically shared common sociological specificities, economic activities, and religious practices.

Context: Nearly 100 people have been killed and scores injured in violent border clashes between Kyrgyzstan and Tajikistan.

Q.111) Consider the following statements

1. The L.69 Group form a major bloc that is united by the common cause of achieving the lasting and comprehensive reform of the United Nations Security Council.
2. The Ezulwini Consensus is a position on international relations and reform of the United Nations, agreed by the ASEAN countries.

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
<p>L.69 Group</p> <ul style="list-style-type: none"> • The L.69 Group is a group of developing countries from Africa, Latin America and the Caribbean, Asia and the Pacific. • They form a major bloc that is united by the common cause of achieving the lasting and comprehensive reform of the United Nations Security Council. • The group currently has 42 countries as its members. 	<p>Ezulwini Consensus</p> <ul style="list-style-type: none"> • The Ezulwini Consensus is a position on international relations and reform of the United Nations, agreed by the African Union. • It calls for a more representative and democratic Security Council, in which Africa, like all other world regions, is represented.

Context: Reform of the United Nations has been a central theme of External Affairs Minister visit to the United Nations. And the G4 countries primarily focused on U.N. Security Council (UNSC) reform and permanent membership of the body for G4 members, among others.

Q.112) Consider the following statements

1. Global Ocean Observing System (GOOS) is a global system to observe carbon concentration in the world's oceans.
2. It is led by the Intergovernmental Oceanographic Commission (IOC) of UNESCO.

Choose the incorrect statements:

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

Q.112) Solution (a)

Statement Analysis

Statement 1	Statement 2
Incorrect	Correct
<ul style="list-style-type: none"> The Global Ocean Observing System (GOOS) provides countries and end-users with critical information on physical, chemical, and biological essential ocean variables. It is aimed at delivery for climate, operational services, and ocean health. 	<ul style="list-style-type: none"> It is led by the Intergovernmental Oceanographic Commission (IOC) of UNESCO. It is co-sponsored by the World Meteorological Organization (WMO), the United Nations Environment Programme (UNEP) and the International Science Council (ISC). The GOOS mission is to lead the ocean observing community and create the partnerships to grow an integrated, responsive and sustained observing system. The international Argo program maintains a global array of ab

Context: GOOS Report Card, 2022, was published highlighting the marine and ocean data.

Q.113) Consider the following statements about Sittanavasal, region recently seen in news

- It was a major centre of Jain influence for 1,000 years just before the Christian era.
- Sittanavasal is the only place in Tamil Nadu that houses Pandya paintings.
- Sittanavasal houses both Arivar Kovil (temple of Arihats) and Megalithic burial sites.

Choose the correct statements:

- 1, 2 and 3
- 2 and 3
- 1 and 3
- 1 and 2

Q.113) Solution (a)

Option a
Correct
<ul style="list-style-type: none"> Sittanavasal is a small village in Pudukottai district of Tamil Nadu. It was a major centre of Jain influence for 1,000 years just before the Christian era.

Sittanavasal houses

- Arivar Kovil (temple of Arihats - Jains who conquered their senses),
- Ezhadipattam (a cavern with 17 polished rock beds),
- Navachunai tarn (small mountain lake) with a submerged shrine,
- Megalithic burial sites.
- Of the 20 cave temples in Pudukottai district, Sittanavasal is the only Jain temple with sculptures.
- Sittanavasal is the only place in Tamil Nadu that houses Pandya paintings.
- The artwork on the ceiling of the sanctum and the ardha mandapam of Arivar Kovil is an early example of post-Ajanta cave paintings of the 4th to 6th centuries.
- These artwork were done using the fresco-secco technique (a process that dispenses with preparation of the wall with wet plaster).
- The ceiling paintings show 'bhavyas' (exalted souls who work to achieve moksha) enjoying themselves in a pool, full of blooming lotuses.
- The pillars of the verandah (added by the Maharaja of Pudukottai at the instance of then Diwan Alexander Tottenham in the 1900s), were brought from Kudumiyanmalai.
- Sittanavasal remains an important place to study the history of the Jain religion as the inscriptions in Brahmi and 'vattaezhuthu', from the third century AD have been discovered here.
- Early Tamil inscriptions from the ninth century AD of the Jain monk Ilan-Gautaman, are found inside the complex.

Context: The Archaeological Survey of India has undertaken conservation measures as much of the art in Sittanavasal are either damaged or vandalized.

Q.114) Consider the following statements about JALDOOT App

1. It is the app developed by the Union Ministry of Urban Affairs to meet the drinking water needs to the urban areas.
2. One of the components of the initiative includes capturing the water level of selected water bodies in urban areas.

Choose the correct statements:

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

Q.114) Solution (d)

Statement Analysis**Option d****Correct**

- Ministry of Rural Development has developed “JALDOOT App” that will be used across the country to capture the water level of selected wells in a village.
- The Jaldoot app will enable Gram Rojgar Sahayak (GRS) to measure the water level of selected wells twice a year (pre-monsoon and post-monsoon). In every village, adequate number of measurement locations (2-3) shall need to be selected. These will be representative of the ground water level in that village.
- The app will facilitate panchayats with robust data, which can be further used for better planning of works. The ground water data could be utilised as part of the Gram Panchayat Development Plan (GPDP) and Mahatma Gandhi NREGA planning exercises. Further, the data can also be used for different kinds of research and other purposes.

Context: Ministry of Rural Development has developed “JALDOOT App” that will be used across the country to capture the water level of selected wells in a village.

Q.115) Operation Megha Chakra, recently in news is related to?

- a) It corresponds to the action against the shell companies for involvement in tax evasion.
- b) It corresponds to the action against the circulation of Child Sexual Abuse Material.
- c) It corresponds to the action against the Fugitive economic offenders who have left India.
- d) It corresponds to the militarization and mobilization of military troops in the Line of Actual Control (LAC).

Q.115) Solution (b)**Option b****Correct**

- The CBI launched the operation, code-named 'Megha Chakra', following inputs from Interpol headquarters, Crime against Children unit in Singapore.
- The CBI carried out searches in 21 States/Union Territory in relation the circulation and sharing of Child Sexual Abuse Material (CSAM).
- CSAM refers to what was previously referred to as 'child pornography'.
- It specifically refers to the possession, viewing, sharing, and creation of images or videos containing sexual or offensive material involving children.
- The CBI operation was targeted at cloud storage facilities used by peddlers to circulate audio-visual content of illicit sexual activities with minors, thus earning the code-name

'Megha Chakra'.

Context: The CBI launched the operation, code-named 'Megha Chakra', following inputs from Interpol headquarters, Crime against Children unit in Singapore.

Q.116) Consider the following statements with respect to 'The Indian Regional Navigation Satellite System (NavIC)'

1. It is an autonomous regional satellite navigation system that provides accurate real-time positioning and timing services
2. It covers India and a region extending 6000 sq. km around it
3. The system consists of eight satellites all placed in geosynchronous orbit

Choose the correct answer using the code given below

- a) 1 only
- b) 1 and 2 only
- c) 1 and 3 only
- d) All the above

Q.116) Solution(a)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Correct	Incorrect	Incorrect
The Indian Regional Navigation Satellite System (IRNSS), with an operational name of NavIC (acronym for Navigation with Indian Constellation) is an autonomous regional satellite navigation system that provides accurate real-time positioning and timing	It covers India and a region extending 1,500 km (930 mi) around it	The constellation consists of 8 satellites. Three of the eight satellites are located in geostationary orbit (GEO) at longitudes 32.5° E, 83° E, and 131.5° E, approximately 36,000 km (22,000 mi) above Earth's surface. The remaining five satellites are in inclined geosynchronous orbit (GSO).

services.		Two of them cross the equator at 55° E and two at 111.75° E
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Context – India proposes to mandate NavIC support for smartphones

Q.117) 'Dharamshala Declaration' recently seen in news is related to

- a) Safeguarding religious heritage
- b) Disaster preparedness
- c) Sustainable and responsible tourism
- d) Urban transformation

Q.117) Solution(c)

At the National Conference of State Tourism Minister, the “Dharamshala Declaration” was adopted for developing “sustainable and responsible tourism” and positions India as a “global leader in the tourism sector by 2047”.

Context – It was in news

Q.118) Consider the following statements with respect to 'Swachh Toycathon'

1. The initiative aims to bring circularity in design and packaging of games and toys
2. It is being undertaken by NITI Aayog and Ministry of Commerce and Industry

Select the INCORRECT statement(s)

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

Q.118) Solution(b)

Statement Analysis:

Statement 1	Statement 2
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Correct	Incorrect
The national competition for individuals from all ages as well as groups and start-ups, aims to bring forth innovation and circularity in design and packaging of games and toys. The competition seeks entries of designs of toys and play-zones using waste and recycled material, prototypes of eco-friendly toys and packaging, and other innovative ideas rethinking the toy industry.	Swachh Toycathon is a competition being undertaken by Ministry of Housing and Urban Affairs under Swachh Bharat Mission-Urban (SBM-u 2.0) with the aim of 'Rethinking Indian toy industry'

Context – The competition was launched recently

Q.119) Consider the following statements with respect to 'Shanghai Cooperation Organization'

1. The Shanghai Cooperation Organisation (SCO) is a Eurasian political, economic and security organization
2. The SCO is governed by the Heads of State Council (HSC), its supreme decision-making body, which meets once a year
3. Samarkand summit held recently admitted Iran as a full time member

Choose the correct answer using the code given below

- a) 1 and 2 only
- b) 2 and 3 only
- c) 1 and 3 only
- d) All the above

Q.119) Solution(a)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Correct	Correct	Incorrect
The Shanghai Cooperation	The SCO is governed by the	Iran formally submitted its

Organisation (SCO) is a Eurasian political, economic and security organization. In terms of geographic scope and population, it is the world's largest regional organization, covering approximately 60% of the area of Eurasia, 40% of the world population, and more than 30% of global GDP	Heads of State Council (HSC), its supreme decision-making body, which meets once a year.	application to join the SCO as a full member state, which is expected to become effective within a year.
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Context – The organization was seen in news

Q.120) With respect to 'Cryogenic engines', consider the following statement(s)

1. A cryogenic rocket engine uses gases which have been gasified and are stored at very high temperatures
2. A cryogenic engine/ cryogenic stage are the first stage of space launch vehicles which makes use of Cryogenics

Select the correct statement(s)

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

Q.120) Solution(d)

Statement Analysis:

Statement 1	Statement 2
Incorrect	Incorrect
A cryogenic rocket engine is a rocket engine that uses a cryogenic fuel and oxidizer; that is,	A cryogenic engine/ cryogenic stage is the last stage of space launch vehicles which makes

both its fuel and oxidizer are gases which have been liquefied and are stored at very low temperatures.

use of Cryogenics. Cryogenics is the study of the production and behaviour of materials at extremely low temperatures (below -150 degree Centigrade) to lift and place the heavier objects in space.

Context - President of India Inaugurated Integrated Cryogenic Engine Manufacturing Facility of Hindustan Aeronautics Limited

Q.121) Consider the following statements

1. Mission Innovation is the inter-governmental platform, announced on the sidelines of the Paris Climate Agreement.
2. The Mission Integrated Biorefineries was launched by the Mission Innovation, and is co-led by India.
3. Mission Integrated Biorefineries has the target of replacing 10% of fossil-based fuels with bio-based Sustainable Fuels by 2030.

Choose the correct statements:

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

Q.121) Solution (d)

Statement Analysis

Statement 1	Statement 2	Statement 3
Correct	Correct	Correct
<ul style="list-style-type: none"> • Mission Innovation (MI) is the inter-governmental platform addressing clean energy innovation through action-oriented cooperation. • Mission Innovation was announced on 30th 	<ul style="list-style-type: none"> • The “Innovation Roadmap of the Mission Integrated Biorefineries” was developed by the co-leads of the Mission Integrated Biorefineries (India and Netherlands) 	<ul style="list-style-type: none"> • Mission Integrated Biorefineries aims at greater international collaboration and the need for increased financing for Energy RD&D (Research, Development & Demonstration) during next 5 years through public-private investment.

<p>November 2015, on the sidelines of the Paris Climate Agreement to undertake ambitious measures to combat climate change.</p> <ul style="list-style-type: none"> • It is a global initiative catalysing a decade of action and investment in research, development and demonstration to make clean energy affordable, attractive and accessible for all. 	<p>with active inputs from Brazil, Canada, EC and the UK.</p>	<ul style="list-style-type: none"> • The Mission's goal is to develop and demonstrate innovative solutions to accelerate the commercialisation of integrated biorefineries. • It has the target of replacing 10% of fossil-based fuels, chemicals and materials with bio-based Sustainable Fuels, Chemicals, and Materials (SFCM) by 2030. • The Mission will focus on the following three pillars to achieve the goal: <ul style="list-style-type: none"> • Supporting Research, Development & Demonstration, • Accelerating Pilots and Demonstrations • Improving Policy and Market Conditions
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Context: India announces the launch of the “Innovation Roadmap of the Mission Integrated Biorefineries” at the first-ever Global Clean Energy Action Forum-2022 at Pittsburgh, in the United States.

Q.122) Consider the following statements about AgriAdapt

1. AgriAdapt was developed by the World Resources Institute (WRI) and National Agro Foundation (NAF).
2. It is a free online tool to help farmers plan their activities based on climatic conditions.
3. AgriAdapt targets three crops globally i.e. rice, cotton and wheat.

Choose the correct statements:

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

Q.122) Solution (a)**Statement Analysis**

Statement 1	Statement 2	Statement 3
Correct	Correct	Incorrect
AgriAdapt was developed by the World Resources Institute (WRI) and National Agro Foundation (NAF).	The aim of the tool is to direct farmers towards potential farming activities that change in climate. This tool makes farmers to understand the conditions that impact their farm, so to make more business. It communicates the data's to farmers through maps in the regional language.	The tool's feature is to target three crops : Rice (Tamil Nadu) Cotton (Andhra Pradesh) Coffee (Colombia)

Context: A free online tool named 'AgriAdapt' was launched to help farmers plan their activities based on climatic conditions.

Q.123) Consider the following statements about Nilgiri Sholakili

1. It is found at 900-2100 m of elevation in shola forests in upper Nilgiris.
2. It is listed as critically endangered by the IUCN.

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
<ul style="list-style-type: none"> • Nilgiri blue robin (Sholicola major) or Nilgiri Sholakili is a dumpy little bird, slat- 	<ul style="list-style-type: none"> • Threats - Habitat loss and climate change.

blue with a tan belly. <ul style="list-style-type: none"> It is highly restricted and spread over, found at 900-2100 m of elevation in shola forests in upper Nilgiris. 	<ul style="list-style-type: none"> Protection Status - Endangered (IUCN)
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Context: Wildlife biologist seeks more support for research on Nilgiri Sholakili.

Q.124) Consider the following statements about Article 131 of Indian Constitution

- Supreme Court has the exclusive jurisdiction to hear and determine a dispute originating between States and the Union.
- Original jurisprudence of Supreme Court doesn't extend to a dispute arising out of a treaty or agreement which continues to be in operation.
- The exclusive original jurisdiction of the SC is not applicable to cases where another body has jurisdiction under other provisions of the Constitution.

Choose the correct statements:

- 1, 2 and 3
- 1 only
- 1 and 2
- 1 and 3

Q.124) Solution (a)

Statement Analysis

Statement 1	Statement 2	Statement 3
Correct	Correct	Correct
<ul style="list-style-type: none"> Article 131 deals with the 'original jurisdiction' of the Supreme Court of India in any dispute that involves a 'question of law or fact on which the existence of legal right depends'. Article 131 entrusts exclusive jurisdiction to the SC to hear and 	<ul style="list-style-type: none"> Under Article 131, original jurisprudence doesn't extend to a dispute arising out of a treaty, agreement, covenant, or engagement which continues to be in operation. 	<ul style="list-style-type: none"> The exclusive original jurisdiction of the SC is not applicable to cases where another body has jurisdiction under other provisions of the Constitution. Examples of this include Articles 262 (inter-State water disputes), 280 (matters referred to

determine a dispute originating between States, or between States and the Union.		Finance Commission) and 290 (adjustment of certain expenses and pensions between the Union and the States).
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Context: Kerala government filed a suit in the SC to challenge the contentious Citizenship Amendment Act, 2019 under Article 131.

Q.125) Big Trail Lake, recently seen in news is located in?

- a) Greenland
- b) Alaska
- c) Iceland
- d) Finland

Q.125) Solution (b)

Option b
Correct
<ul style="list-style-type: none"> • Big Trail Lake is one of Alaska's newest lakes and one of the largest methane emission hotspots in the Arctic. • Big Trail Lake is a thermokarst lake, which signifies it formed due to permafrost thaw. Permafrost is terrain that remains frozen all year; the permafrost in inner Alaska features large wedges of actual ice locked within the frozen Earth. • When the glaciers melt, the Earth's surface collapses, forming a sinkhole that can overflow with water. As an outcome, a thermokarst lake forms.

Context: Newly formed thermokarst lakes in Alaska are releasing methane bubbles.

Q.126) Consider the following statements about UNESCO-MONDICULT Conference

1. The aim of the conference is build a resilient cultural sector in line with the United Nations Sustainable Development Goals (SDG).
2. India is the President of the UNESCO-MONDICULT conference 2022, which is being held in New Delhi.

Choose the incorrect statements:

- a) 1 only

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

Q.126) Solution (b)**Statement Analysis**

Statement 1	Statement 2
Correct	Incorrect
UNESCO World Conference on Cultural Policies and Sustainable Development – MONDIACULT 2022 <ul style="list-style-type: none"> • The conference will be convened by UNESCO: • 40 years after the first MONDIACULT world conference on Cultural Policies held in Mexico City in 1982. • 24 years after the UNESCO World Conference on Cultural Policies for Development held in Stockholm in 1998. 	<ul style="list-style-type: none"> • The UNESCO-MONDIACULT 2022 World Conference will be hosted from 28 to 30 September 2022 by the Government of Mexico. • As the world enters the last Decade of Action for the implementation of the United Nations Sustainable Development Goals (SDGs). • Culture has a crucial role to play in SDG 11: Make cities and human settlements inclusive, safe, resilient and sustainable.

Context: The Indian delegation headed by the Minister of State for Culture will be represented at UNESCO-MONDIACULT 2022.

Q.127) Consider the following statements about Taj Trapezium Zone (TTZ)

1. The Central Government in exercise of the powers conferred under the EPA, 1986 has constituted the Taj Trapezium Zone Pollution authority in 1998.
2. TTZ is a defined area of 10,400 sq km around the Taj Mahal to protect the monument from pollution.
3. It comprises three World Heritage Sites the Taj Mahal, Agra Fort and Fatehpur Sikri.

Choose the correct statements:

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

d) 2 and 3

Q.127) Solution (a)

Statement Analysis

Statement 1	Statement 2	Statement 3
Correct	Correct	Correct
<ul style="list-style-type: none"> The Central Government in exercise of the powers conferred under the Environment (Protection) Act, 1986 has constituted the Taj Trapezium Zone Pollution (Prevention and Control) authority in 1998. 	<ul style="list-style-type: none"> TTZ is a defined area of 10,400 sq km around the Taj Mahal to protect the monument from pollution. TTZ is so named since it is located around the Taj Mahal and is shaped like a trapezium. 	<ul style="list-style-type: none"> It comprises monuments including three World Heritage Sites the Taj Mahal, Agra Fort and Fatehpur Sikri.

Context: Recently, Supreme Court directed the Agra Development Authority to stop all commercial activities within a 500-metre radius of the Taj Mahal, a UNESCO World Heritage Site.

Q.128) Consider the following statements about Unlawful Activities Prevention Act (UAPA) Tribunal

- The tribunal consists of only one person, who has to be a High Court judge.
- All expenses incurred for a tribunal are borne out of the Consolidated Fund of India.
- The government order banning an organisation can come into effect only when the UAPA tribunal confirms it.

Choose the incorrect statements:

- 1 only
- 2 only
- None
- 1 and 3

Q.128) Solution (c)

Statement Analysis

Statement 1	Statement 2	Statement 3
Correct	Correct	Correct

<p>Constitution of the tribunal</p> <ul style="list-style-type: none"> • The tribunal consists of only one person, who has to be a High Court judge. • If a vacancy occurs in the Tribunal, the Centre appoints another judge and the proceedings continue from the stage at which the vacancy is filled. 	<ul style="list-style-type: none"> • The Centre is to provide to the tribunal such staff as necessary for the discharge of its functions. • All expenses incurred for a tribunal are borne out of the Consolidated Fund of India. 	<ul style="list-style-type: none"> • A government order banning an organisation would not come into effect until the tribunal has confirmed it. • However, in exceptional circumstances, the notification can come into effect immediately once the reasons for it are recording in writing. • The tribunal can endorse or reject it.
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Context: The Centre banned the Popular Front of India (PFI), deeming the organisation an "unlawful association" under the Unlawful Activities Prevention Act (UAPA).

Q.129) Consider the following statements about United Nations Watercourses Convention (UNWC)

1. It is the only treaty governing shared freshwater resources that is of universal applicability.
2. The uses of international watercourses for navigation are not within the scope of the present Convention.
3. India is a signatory to the convention.

Choose the incorrect statements:

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

Q.129) Solution (b)

Statement Analysis

Statement 1	Statement 2	Statement 3
Correct	Correct	Incorrect
<ul style="list-style-type: none"> • The United Nations Convention on the 	<ul style="list-style-type: none"> • The present Convention applies to uses of international watercourses 	<ul style="list-style-type: none"> • Both India and China are not

<p>Law of the Non-Navigational Uses of International Watercourses (UNWC) 1997, is the only treaty governing shared freshwater resources that is of universal applicability.</p>	<p>and of their waters for purposes other than navigation and to measures of protection, preservation and management related to the uses of those watercourses and their waters.</p> <ul style="list-style-type: none"> • The uses of international watercourses for navigation is not within the scope of the present Convention except insofar as other uses affect navigation or are affected by navigation. 	<p>signatories to the convention.</p>
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Context: In recent context of increasing frequency and the intensity of floods in many parts of the world, Article 27 of the UNWC Convention states that Watercourse States shall, individually and, where appropriate, jointly, take all appropriate measures to prevent or mitigate conditions that may be harmful to other watercourse States.

Q.130) Bandhavgarh Tiger Reserve, recently seen in news is located in?

- Jharkhand
- Madhya Pradesh
- Maharashtra
- Karnataka

Q.130) Solution (b)

Option b

Correct

The Archaeological Survey of India (ASI) has discovered a treasure trove of ancient relics at the Bandhavgarh Tiger Reserve in Madhya Pradesh.

- In Bandhavgarh, the Buddhist caves and stupas, and Brahmi inscriptions discovered date back to the 2nd century.
- The Hindu temples date back to the 9th-11th centuries.
- The Varaha sculpture found here is the world's largest Varaha sculpture dating back to the 9th-11th centuries.
- The time period of the findings covered the reigns of the kings Shri Bhimsena, Maharaja Pothasiri, and Maharaja Bhattadeva.
- In Brahmi inscriptions, the ancient cities like Mathura and Kaushambi, Pavata (Parvata),

Vejabharada and Sepatanaairikaa were mentioned.

Context: The Archaeological Survey of India (ASI) has discovered a treasure trove of ancient relics at the Bandhavgarh Tiger Reserve in Madhya Pradesh.