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## GENERAL STUDIES TEST SERIES

PRELIMINARY EXAMINATION - 2018

### TEST 6: ENVIRONMENT & ECOLOGY - I

Time Allowed: Two Hours

Maximum Marks: 200

#### Instructions:

1. This Test Booklet contains 100 items (questions). Each item comprises four responses (answers). You will select the response which you want to mark on the Answer Sheet. In case you feel that there is more than one correct response, mark the response which you consider the best.
2. All items carry equal marks.
3. Mark your answer on the Answer Sheet provided separately. For marking your answer darken the circle against the option by using a Pencil.
4. **Penalty for wrong Answers:**

**THERE WILL BE PENALTY FOR WRONG ANSWERS MARKED BY A CANDIDATE IN THE OBJECTIVE TYPE QUESTION PAPERS**

- (1) There are four alternatives for the answer to every question. For each question for which a wrong answer has been given by the candidate, **one-third** of the marks assigned to that question will be deducted as penalty.
- (2) If a candidate gives more than one answer, it will be treated as a wrong answer even if one of the given answers happens to be correct and there will be same penalty as above to that question.
- (3) If a question is left blank i.e., no answer is given by the candidate, there will be no penalty for the question.

**Q1.** Consider the following statements:

1. India has recently ratified second commitment period (2013-20) of the Kyoto Protocol.
2. India became 76<sup>th</sup> country to ratify the second commitment period of Kyoto Protocol.
3. India being a developing country has mandatory mitigation obligation or Targets under Kyoto Protocol.
4. Andorra, Palestine, North Sudan, The United States and Canada are the only UNFCCC parties that are not part of the Kyoto Protocol.

Which of the above statement(s) is/are incorrect?

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

**Q2.** Which of the following is **not** true?

- (a) Uninhabited Lakshadweep Island Parali I Vanishes due to coastal erosion.  
(b) Largest Volcanic region on earth found in Antarctica along the East Antarctic rift system.  
(c) Snow Leopard is now Vulnerable according to IUCN earlier it was endangered.  
(d) MOEFCC has recently launched Prakriti Khoj – It is an online environmental quiz competition to be conducted at the national level with the objective of generating interest among school children about the science related to environment.

**Q3.** The Union Environment Ministry has notified the New Wetland (Conservation and Management) Rules 2017, which of the following is **not** true?

1. The new rule will replace 2010 version of the rules.
2. It stipulates setting up of State Wetland Authority (SWA) in each state/UTs headed by Chief Minister and include range of Government officials.
3. State Government will also nominate one expert each in fields of wetland ecology, hydrology, fisheries, landscape planning and socio economics.
4. The rules stipulate for setting up of NWC (National Wetlands Committee), headed by MoEFCC secretary.

- (a) 1 and 2 only                      (b) 2 only  
(c) 4 only                                (d) None

**Q4.** “Aquatic Rhabdop” was recently in News, consider the following statements:

1. It is a new species of Non Venomous aquatic snake reported in Eastern Ghats.
2. It is Variant of ‘olive forest snake’.
3. Aquatic rhabdops are nocturnal snake hunts for prey underwater.
4. Aquatic Rhabdops is found only in the laterite plateaus of the northern Western Ghats in Goa, Southern Maharashtra and Northern Karnataka which are mostly areas facing high human pressure.

Select the correct code:

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

**Q5.** Which of the following is **not** true?

- (a) Ethanol fuel/Gasohol is renewable energy.  
(b) Ethanol is biofuel derived from sugarcane molasses, corn, sorghum and cotton stalks.  
(c) Ethanol blending is mentioned in Autofuel policy 2003, National Policy on Biofuels 2009.  
(d) National Polity on Biofuels 2009 made mandatory for oil companies to sell petrol blended with atleast 5% of ethanol.

**Q6.** Recently Musa Paramjitiane was in news, consider the following statements:

1. It is a new species of wild banana.
2. IUCN status in “Critically Endangered”.
3. The fruits and seeds have ethno-medical importance.
4. Pseuostem and leaves of these species are used in religious and cultural ceremonies.

Select the correct code:

- (a) 1, 2 and 3 only                      (b) 2, 3 and 4 only  
(c) 1, 3 and 4 only                      (d) All of the above

**Q7.** Project ‘Developing River Biodiversity Park and Turtle Conservation Programme’ is approved under \_\_\_\_\_ and \_\_\_\_\_.

- (a) NWAP III and Haridwar

- (b) Namami Gange Programme and Allahabad
- (c) NWAP III and Allahabad
- (d) Namami Gange Programme and Haridwar

**Q8.** 'Secure Himalaya Project' was in news. Select the correct statement/s:

1. It is a project launched by MOEFCC and UNFCCC.
2. Aim of project is securing livelihoods, conservation, sustainable use and restoration of high range Himalayan ecosystem.
3. Project is spread over states J & K, Himachal Pradesh, Uttarakhand, Sikkim and Arunachal Pradesh.
4. Snow Leopard is one of focussed species of the project.

Codes:

- (a) 1, 2 and 3 only                      (b) 2, 3 and 4 only
- (c) 2 and 4 only                        (d) All of the above

**Q9.** Consider the following statements regarding ICRISAT:

1. The International Crops Research Institute for the Semi-Arid Tropics (ICRISAT) is an international organization which conducts agricultural research for rural development, headquartered in Patancheru, Hyderabad.
2. Its charter was signed by the FAO and UNFCCC.
3. The original goal was to use crop improvement research as the basis to improve food availability in drought-prone areas of the tropics.
4. ICRISAT performs crop improvement research, using conventional as well as methods derived from biotechnology, on the following crops: Chickpea, Pigeonpea, Groundnut, Pearl millet, Sorghum, Finger Millet and Small millets.

Select the correct code:

- (a) 1, 2 and 3 only                      (b) 2, 3 and 4 only
- (c) 1, 3 and 4 only                      (d) All of the above

**Q10.** Recently \_\_\_\_\_ government inks MoU with Microsoft to use Artificial intelligence for digital agriculture.

- (a) Uttar Pradesh

- (b) Karnataka
- (c) Gujarat
- (d) Telangana

**Q11.** According to recently released National Wildlife Action Plan III (NWAP III) for 2017-31 by MoEFCC, its components are:

1. Landscape approach
2. Beeta diversity
3. Managing ecotourism
4. Alpha-diversity
5. Use of radio collars and Drones

Select the correct code:

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

**Q12.** Consider the following statements:

1. India's draft national Electricity Plan of 2016 talks about stabilisation of coal powered electricity to 250 GW over the next decade.
2. Above Draft talks about expansion of renewable energy to 275 GW by 2026-27.
3. According to India's INDC at least 40% of its energy in 2030 would be generated from non fossil fuel sources like solar, wind or biofuels.
4. According to India's INDC forest cover will be rapidly increased so that an additional carbon sink of 2.5 to 3 billion tonnes of CO<sub>2</sub> equivalent is created by the year 2030.

Select the correct code:

- (a) 1, 2 and 3 only                      (b) 2, 3 and 4 only
- (c) 1, 3 and 4 only                      (d) All of the above

**Q13.** Recently "Farmer Zone" was in news. It is

- (a) A collective open source data platform for smart agriculture
- (b) Organic farming region
- (c) Region of sustainable farming
- (d) Agro-climatic region

**Q14.** Consider the following statements regarding B4 labs:

1. It is to safeguard fast eroding Majuli Island.
2. B4 stands for Brahmaputra Biodiversity Boost of Botanical resources.

3. The purpose of the project is to study changes caused by dams, climate change, human interventions and eventual efforts on river ecosystem.
4. B4 labs are equipped with cold storage facilities or holding samples along with Multiple Satellite Boats or rafts that will venture into shallower and narrower parts of the river to lift samples.

Select the correct code:

- (a) 1, 2 and 3 only      (b) 2, 3 and 4 only  
(c) 1, 3 and 4 only      (d) All of the above

**Q15.** Recently \_\_\_\_\_ has been identified for “The Tiger Augmentation Programme” by the NTCA (National Tiger Conservation Authority).

- (a) Ranthambhore National Park  
(b) Mukundra Hills Tiger Reserve  
(c) Buxa Tiger Reserve  
(d) Manas Tiger Reserve

**Q16.** Which of the following serves as International Corridor for Asian Elephant Migration between India and Bhutan?

- (a) The Phipsu Wild Life Sanctuary  
(b) Manas National Park  
(c) Buxa Tiger Reserve  
(d) Pakke Tiger Reserve

**Q17.** Which of the following is **not** true?

1. Goa declares coconut palm as state tree.
2. Bhoor Singh the Barasingha is the official mascot of Knaha Tiger reserve (M.P).
3. The World’s first garden of Halophytes inaugurated at Vedaranyam (T.N).
4. India’s first 2<sup>nd</sup> generation ethanol bio refinery to be set up in Bhatinda.

- (a) 1 and 2 only      (b) 3 only  
(c) 4 only      (d) None

**Q18.** Consider the following statements regarding ‘VENUS’:

1. It is first environmental research satellite.
2. VENUS stands for vegetation and environment monitoring new micro-satellite.

3. It is a joint venture of Israel Space Agency (ISA) and its German Counterpart.
4. It will be used to survey and monitor large areas to study, vegetation, forests, agriculture, water and air quality.

Select the correct code:

- (a) 1, 2 and 3 only      (b) 2, 3 and 4 only  
(c) 1, 2 and 4 only      (d) All of the above

**Q19.** “Project Varshadari” was in news. Consider the following statements:

1. It is rainwater harvesting programme started in Karnataka.
2. It is cloud seeding project started in Karnataka.
3. Silver Iodide, Sodium Chloride and Potassium Chloride Solid CO<sub>2</sub> is used to condense water particles.
4. Cloud seeding is also known as weather modification technique, an artificial way to induce moisture in clouds so as to cause rainfall.

Select the correct code:

- (a) 1, 2 and 3 only      (b) 2, 3 and 4 only  
(c) 1, 3 and 4 only      (d) All of the above

**Q20.** Which of the following is true regarding Black Carbon?

1. It is produced both naturally and by Anthropogenic sources like incomplete combustion of fossil fuels.
2. Black Carbon affects regional cloud formation and precipitation pattern.
3. When deposited on ice promotes its albedo.
4. When deposited on ice decreases its melting.

Select the code:

- (a) 1 and 2 only      (b) 2 and 3 only  
(c) 1, 3 and 4 only      (d) All of the above

**Q21.** Aerosols from vehicular exhaust, half burnt crop residue, dust and chemical effluents are shrinking Indian Monsoon as mentioned in recent report of

- (a) Indian Institute of Tropical Meteorology, Pune

- (b) Indian Meteorological department, New Delhi
- (c) IISC, Bangalore
- (d) IPCC - India

**Q22.** The NGT has the power to hear all civil cases relating to environmental issues and questions that are linked to

1. The Water (Prevention and Control of Pollution) Act, 1974.
2. The Forest (Conservation) Act, 1980.
3. The Environment (Protection) Act, 1986.
4. The Biological Diversity Act, 2002.
5. The Wildlife (Protection) Act, 1972.
6. The Indian Forest Act, 1927.

Select the correct code:

- (a) 1, 2, 3, 5 and 6                      (b) 1, 2, 3 and 4
- (c) 2, 3, 4, 5 and 6                      (d) All of the above

**Q23.** Consider the following statements related to HFC23.

1. It is a by-product of HCFC22, which is used in refrigeration and air conditioning.
2. Emissions of HFC23 are not included in the UNFCCC's Kyoto Protocol.

Which of the above statement(s) is/are **incorrect**?

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

**Q24.** Carbon sequestration is an important technique in addressing climate change. Which of the following is not a carbon sequestration technique?

- (a) Bringing large tracts of tropical regions under afforestation.
- (b) Injecting CO<sub>2</sub> into oil fields and oceans.
- (c) Developing of wetlands
- (d) Reducing the emission of carbon dioxide by reducing burning of fossil fuels.

**Q25.** Clean Development Mechanism is important component of Kyoto Protocol. Consider the following statements:

1. Annex-1 parties- comprises only of the industrialized countries that were members

of the OECD (Organisation for Economic Co-operation and Development) in 1992.

2. Annex-2 parties- comprises of countries with economies in transition.

Which of the above statement(s) is/are **incorrect**?

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

**Q26.** Consider the following statements regarding Delhi Declaration on Agro-biodiversity Management.

1. It states that nations must accord top priority to the agro-biodiversity conservation and their sustainable use towards achieving targets of SDGs.
2. It emphasizes the necessity of global exchange of plant, animal, aquatic microbial and insect genetic resources for food and agriculture.
3. It rejects the involvement of private sector partnerships in the utilization of agro-biodiversity to address malnutrition and enhance ecosystem services.

Which of the above statement(s) is/are **incorrect**?

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

**Q27.** Consider the following statements:

1. The Cartagena Protocol, a subsidiary agreement to the UN Convention on Biological Diversity, prohibits the collection of plant materials by a foreign country without an agreement with host countries on the sharing of benefits arising from such resources.
2. India's Wildlife Protection Act, 1972 is applicable for the protection of some plant species.

Which of the above statement(s) is/are **incorrect**?

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

**Q28.** What is Green Data Centre?

- (a) A data centre created by environmentalists to keep record of green technology, clean production techniques.
- (b) A repository for the storage, management and dissemination of mechanical, lighting,

electrical and computer systems developed to optimize energy efficiency and environmental impact.

- (c) A data centre for green building for optimizing of power consumption using energy efficient technology.
- (d) A repository providing information about details of small scale industries adopting energy efficiency measures.

**Q29.** Which one of the following is the issue related to BRS Conventions?

- (a) Marine environment
- (b) Biological Diversity
- (c) Atmosphere
- (d) None of the above

**Q30.** Which one of the following statements related to DEMU is correct?

- (a) It is the MoU signed between Indian and Japan to increase solar energy development.
- (b) It is the world's first solar powered cargo ship.
- (c) It is the country's first solar-powered local train.
- (d) It is the name of the critical technology used in solar power cells.

**Q31.** Consider the following statements about Gas Hydrates:

1. Gas Hydrates are formed as the stable solid.
2. Most gas hydrates are formed from cooled Nitrous oxide.
3. When gas molecules are trapped in a lattice of water molecules at temperatures below 0°C and pressures above one atmosphere, they form gas hydrates.
4. Hydrates also influence the global climate change.

Which of the above statement(s) is/are correct?

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

**Q32.** Which one of the following has become the first green metro of the world?

- (a) London Metro (Tube)

(b) Bangkok Metro

(c) Chicago Metro

(d) Delhi Metro

**Q33.** Consider the following statements related to Coral reefs:

1. Coral bleaching refers to the loss of colour of the corals that form the highly fragile ecosystems, coral reefs.
2. Coral reefs are located in circum-tropical shallow tropical waters along islands and continents.
3. The coral reefs are referred to as tropical rainforests of the ocean.
4. Coral cannot survive in the waters having either very low temperature or very high temperature.

Which of the above statement(s) is/are **incorrect**?

- (a) 1 and 2 only      (b) 2 and 3 only
- (c) 1 and 4 only      (d) None of the above

**Q34.** Consider the following statements:

1. Eutrophication is the addition of artificial or non-artificial substances like nitrates and phosphates to a fresh water system.
2. It is the "bloom" or great increase of phytoplankton in a water body.
3. It also includes increase of oxygen in the water with severe increase in fish and other animal population.

Which of the above statement(s) is/are **incorrect**?

- (a) 2 only      (b) 1 and 3 only
- (c) 3 only      (d) None of the above

**Q35.** Consider the following statements:

1. Hydrofluoro-carbons are ozone depleting in nature.
2. They are more potent ozone depleting substance than Chlorofluorocarbons.
3. They do not have high global warming potential.

Which of the above statement(s) is/are correct?

- (a) 1 and 2 only      (b) 2 only
- (c) 3 only      (d) None of the above

**Q36.** Consider the following statements:

1. The Biological Oxygen Demand (BOD) is the measure of organic matter present in the water.
2. Greater the BOD, lesser is the polluting potential.
3. Microbes in sewage treatment plants increase the BOD of the effluent.

Which of the above statement(s) is/are **incorrect**?

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

**Q37.** With reference to carrying capacity of the earth, consider the following statements:

1. Population size decreases above carrying capacity of the earth.
2. Ecological Footprint accounting helps in estimating human demand compared to ecosystem's carrying capacity.

Which of the above statement(s) is/are correct?

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

**Q38.** Consider the following statements:

1. Dailong village has been declared as the Biodiversity Heritage site in India.
2. Dailong village is located in Manipur.

Which of the above statement(s) is/are correct?

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

**Q39.** Consider the following statements:

1. MoU has been signed between Indian Coast Guard and Space Application Centre in the field of Meteorology and Oceanology.
2. The main areas of cooperation are sharing of non-confidential observational data for pre-launch sensor calibration and post launch satellite data validation, carrying out calibration and validation for ocean models etc.
3. Space Application centre is the centres of ISRO which focuses on the design of space-borne instruments for ISRO missions.

Which of the above statement(s) is/are correct?

- (a) 1 and 2 only                      (b) 2 only

- (c) 2 and 3 only                      (d) 1, 2 and 3

**Q40.** Consider the following statements related to Aerosols:

1. Aerosols are short-lived that persist and accumulate in the atmosphere for longer period.
2. Aerosols are artificial in nature and don't have natural origins.

Which of the above statement(s) is/are correct?

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

**Q41.** Consider the following statements regarding BS Norms:

1. Bharat Stage norms are formulated by the Government of India to regulate the output of air pollutants from internal combustion engine equipment excluding light weight motor vehicles.
2. Central Pollution Control Board has set the standards and the timeline for implementation of the norms.

Which of the above statement(s) is/are correct?

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

**Q42.** Which of the following statement(s) related to Darwaza Band campaign is/are **not** correct?

1. This campaign was launched by the Ministry of Environment and Forests.
2. It promotes toilet use and freedom from open defecation across the country's village and is supported by the World Bank.

Select the correct code:

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

**Q43.** India has recently contributed an additional \$1 million to India-UN Development Partnership Fund. Consider the following statements related to India-UN Development Partnership Fund:

1. The objective of the fund is to implement country-level projects in order to achieve the goals of 12<sup>th</sup> five year plan.
2. It will assist in reducing poverty and hunger, improving health, education and equality etc.



	International Trade
3. Stockholm Convention	Protecting human health and environment from Persistent Organic Pollutants

Select the correct code:

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

**Q51.** Which of these conventions is/are Rio Conventions?

1. UN Framework Convention on Climate Change.
2. Convention on Biological Diversity.
3. Vienna Convention on Ozone Depleting Substances.
4. Stockholm Convention on Persistent Organic Pollutants.
5. UN Convention to Combat Desertification.

Select the correct code:

- (a) 1, 2 and 4 only              (b) 1, 2 and 3 only  
(c) 1, 2 and 5 only              (d) 1, 2, 3, 4 and 5

**Q52.** Which of the following statement is/are correct?

1. Bioremediation, is define as the process whereby organic wastes are biologically degraded under controlled conditions to an innocuous state.
2. Bioremediation, is the used of living organism to degrade the environmental contaminants into less toxic forms.
3. Bioremediation can be effective only where environmental conditions permit microbial growth and activity.

Select the correct code:

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

**Q53.** Consider the following statements:

1. Eutrophication is a natural process.
2. Major contaminants in eutrophication are nitrates and phosphates.
3. Biological Oxygen Demand (BOD) is a measure of the oxygen used by microorganisms to decompose their waste.

4. Bio-magnification implies increase in the total biomass at successive trophic levels.

Which of the above statements is/are correct?

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

**Q54.** Coral bleaching is the whitening of coral that results from the loss of zooxanthellage or the degradation of the algae's photosynthetic pigment. The factors that lead to coral bleaching are

1. Global climate change
2. Destructive fishing methods
3. Mixing of river water
4. Deposition of sediments in water
5. Prevalence of invasive species

Which of the above listed threats are correct?

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

**Q55.** Consider the following Flexible Mechanisms of Kyoto Protocol:

1. Through Clean Development Mechanism (CDM), any Annex I country can invest in emission reduction projects in any other Annex I country as an alternative to reducing emission domestically.
2. Through joint implementation (JI), countries can meet their domestic emission reduction targets by buying greenhouse gas reduction units from (projects in) non-Annex I countries to the Kyoto Protocol (Most developing countries).

Which of the above statement(s) is/are correct?

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

**Q56.** Global warming is casting irreversible damage to the marine ecosystems in the oceans. Oceans around the world are believed to be the biggest sinks for carbon dioxide and other green house gases.

Which of the following effect of GHGs on the oceans?

1. The capacity of the sea shells to produce their carbonate crusts is depleting due to increased acidity of the sea water.

- Warmer oceans inhibit the growth of phytoplankton and algae which are at the foundation of the oceanic food chain and the oxygen producing engine of the planet.
- Changes in the migration patterns of heat tolerant and heat intolerant creatures shall alter predatory pattern across the oceans creating a crisis for food for prey and the unadaptable ones.
- Erratic and fast warming of the oceans can alter the patterns of oceanic currents which are so vital for global climates and sustenance of aquatic ecosystem in their role as conduits of nutrition.

Select the correct code:

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

**Q57.** Consider the following statements with references to Olive Ridley turtle:

- Olive Ridley Turtle is the smallest and most abundant of all sea turtle found in the world.
- It is found in warm waters of the Indian and Pacific Oceans.
- It is recognized as Endangered by the IUCN Red list.
- Coringa Wildlife Sanctuary of Andhra Pradesh is breeding area for these turtle.

Which of the above statement(s) is/are **incorrect**?

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

**Q58.** Consider the following statements:

- Kyoto Protocol has come into force on Feb 2005 with an obligation on a number of industrialized countries to reduce emissions by an average of 5.2 percent relative to levels prevailing in 1990.
- The concentration of methane in atmosphere is more than the concentration of CO<sub>2</sub>.
- Kyoto Protocol deals primarily with the depletion of the Ozone layer.

Which of the above statement(s) is/are **incorrect**?

- (a) 1 and 2 only                      (b) 2 and 3 only  
(c) 1 and 3 only                      (d) None of the above

**Q59.** Consider the following statements regarding 'Earth Hour':

- It is an initiative of UNEP and UNESCO.
- It is a movement in which the participants switch off the lights for one hour on a certain day every year.
- It is a movement to raise the awareness about the climate change and the need to save the planet.

Which of the above statement(s) is/are correct?

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

**Q60.** What will be the impact on National Water Mission if it is effectively and completely implemented?

- Part of the water needs of urban areas will be met through recycling of waste water.
- The water requirements of coastal cities with inadequate alternative sources of water will be met by adopting appropriate technologies that allow or the use of ocean water.
- All the rivers of Himalayan origin will be linked to the rivers of peninsular India.
- The expenses incurred by farmers for digging bore-wells and for installing motors and pump-sets to draw groundwater will be completely reimbursed by the Government.

Select the correct code:

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

**Q61.** Which of the following statement(s) is/are correct?

- (a) Carbon Credit is a generic term for any tradable certificate or permit representing the right to emit one tonne of carbon dioxide or the mass of another greenhouse gas with a carbon dioxide equivalent to one tonne of CO<sub>2</sub>.
- (b) Carbon credits are traded at a price fixed from time to time by the United Nations Environment Programme.
- (c) The goal of the Carbon Credit System is to limit the increase of Carbon dioxide emission.
- (d) All of the above.

**Q62.** Ramsar Convention is the only global environment treaty dealing with Wetlands. Regarding this, consider following statements:

1. Chilka lake is the only Ramsar site in India.
2. One of the salient features of this convention is the improvement of the national legislations for the protection of the wetlands.

Which of the above statement(s) is/are correct?

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

**Q63.** Assertion (A): Montreal Protocol and Vienna Convention are related to Ozone Depleting Substances.

Reason (R): Ozone depletion will affect human body by enhancing the chances of skin cancer and reduced level of Vitamin D in the body.

Select the correct code:

- (a) Both are correct and R is correct explanation for A.  
(b) Both are correct but R is not correct explanation for A.  
(c) A is correct and R is false.  
(d) A is false and R is correct.

**Q64.** Assertion (A): Coral bleaching is an adverse phenomenon that causes bad effects on the biodiversity of a region.

Reason (R): Increase and decrease in ocean temperature, increase in Zooplankton levels and changes in salinity are its causes.

Select the correct code:

- (a) Both are correct and R is correct explanation for A.  
(b) Both are correct but R is not correct explanation for A.  
(c) A is correct and R is false.  
(d) A is false and R is correct.

**Q65.** Assertion: Carbon sequestration is an important technique in addressing climate change.

Reason (R): Reducing the emission of carbon dioxide by reducing burning of fossil fuels is

an important method of carbon sequestration to address climate change.

Select the correct code:

- (a) Both are correct and R is correct explanation for A.  
(b) Both are correct but R is not correct explanation for A.  
(c) A is correct and R is false.  
(d) A is false and R is correct.

**Q66.** Assertion: National Air quality index considers eight pollutants-PM 10, PM 2.5, NO<sub>2</sub>, SO<sub>2</sub>, CO, O<sub>3</sub>, Ammonia and Lead.

Reason (R): There are six AQI categories, namely Good, Satisfactory, Moderately polluted, Poor, Very Poor, and Severe.

Select the correct code:

- (a) Both are correct and R is correct explanation for A.  
(b) Both are correct but R is not correct explanation for A.  
(c) A is correct and R is false.  
(d) A is false and R is correct.

**Q67.** Assertion (A): Sabarimala is a Hindu pilgrimage centre located at the Wayanad wildlife national park.

Reason (R): Kerala High Court has banned usage of plastic and PET (Polyethylene Terephthalate) bottles at Sabarimala.

Select the correct code:

- (a) Both are correct and R is correct explanation for A.  
(b) Both are correct but R is not correct explanation for A.  
(c) A is correct and R is false.  
(d) A is false and R is correct.

**Q68.** Organic farming is a system which avoids or largely excludes the use of synthetic inputs (such as fertilizers, pesticides, hormones, feed additives etc).

Which of the following are the benefits of organic farming?

1. Environment Preservation

2. Economic Profitability
3. Enhanced crop yield
4. Most efficient use of resources
5. Social and Economic Equity

Select the correct code:

- (a) 1, 2 and 4                      (b) 1, 3 and 5  
(c) 1, 2, 4 and 5                (d) 3, 4 and 5 only

**Q69.** National Green Tribunal has directed the Centre to test cosmetic products containing microbeads. Consider the following statements regarding Microbeads.

1. Microbeads are tiny plastic substances that act as agent which remove dead cells on skin and teeth.
2. Setting up of water treatment plants prevents microbeads from flowing into seawater.
3. Bio-degradable Jojoba beads can be used as an alternative to Microbeads.

Which of the above statement(s) is/are correct?

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

**Q70.** Which of the following statements correctly define the Red Data List published by the International union for Conservation of Nature and Natural Resources (IUCN)?

1. It divides species into six categories.
2. Information on plants, fungi and animals which are classified as Least Concern are not included in the list.
3. Information on plants, fungi and animals that are categorized as Extinct or Extinct in the Wild are included in the list.

Codes:

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

**Q71.** India is a member party to the Ramsar Convention and has declared many wetland areas as Ramsar Sites. Which of the following comes under the category of wetlands?

1. Swamps                              2. Peatland
3. Rice Paddies                        4. Mangroves

5. Coral Reefs

Correct Code:

- (a) 1 and 5 only                      (b) 1, 2, 3 and 4 only  
(c) 1, 2, 3, 4 and 5                (d) 1, 2, 3 and 5 only

**Q72.** Over 140 countries have agreed on the first international treaty that aims to reduce the emission and release of mercury into the air, water and land. The name of the Treaty is Minamata convention.

Which of the following statement(s) is/are correct related to the treaty?

1. The convention lays conditions on mining of mercury.
2. The use of mercury in products like CFL, batteries, soaps, cosmetics and medical appliances must be phased out by 2020.
3. Treaty keeps exception for the products like vaccines' preservatives and products related to religious faith.

Codes:

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

**Q73.** Consider the following statements regarding CBD (Convention on Biological Diversity):

1. Convention on Biological Diversity (CBD) is legally binding Convention entered into force 23 Dec. 1993.
2. CBD is dedicated to promoting sustainable development.
3. Conceived as a practical tool for translating the principles of Agenda 21 into reality.

Select the correct code:

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

**Q74.** Which of the following conventions/protocols are formed under UNEP?

1. CITIES                                2. Vienna Convention
3. Montreal Protocol                4. CMS
5. Basel Convention                6. Kyoto Protocol
7. Doha Amendment

Select the correct code:

- (a) 1, 2, 3, 4 and 5      (b) 2, 3, 4 and 5  
(c) 4, 5, 6 and 7      (d) All of the above

**Q75.** Consider the following regarding EIS (Environmental Impact Survey):

1. The ranking has been done by Money Super Market, a UK based financial services website.
2. EIS, ranking is on basis of Energy Consumption per capita, air pollution, waste production, CO<sub>2</sub> emission per capita, etc.
3. Mozambique, Ethiopia and Zambia occupies 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> ranks respectively.
4. India occupies 25<sup>th</sup> rank of 102 countries.

Which of the above statement(s) is/are **incorrect**?

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

**Q76.** Which of the following is not controlled under Montreal Protocol?

- (a) CFCs, Halons, CTC, HCFC  
(b) CFCs, Halons, HFC, Endo sulphar  
(c) CCl<sub>4</sub>, CH<sub>3</sub> Br and Halons  
(d) HCFC, CFCs, CCl<sub>4</sub> and Carbon tetrachloride

**Q77.** As per COP decision, it has been structured around three questions to arrive at answers with consensus: where are we? Where do we want to go? How do we get there? It is about:

- (a) Talanoa dialogue  
(b) Bonn Convention  
(c) Stockholm Conference  
(d) Washington Declaration

**Q78.** Consider the following statements:

1. The Twelfth Session of the Conference to the Bonn Convention (CMSCOP12) was held in Manila, Philippines.
2. The slogan for the conference is "Their future is our Future – sustainable development for wildlife and people".
3. Migratory species threatened with extinction are listed in Appendix II of the convention.
4. Migratory species that would significantly benefit from International cooperation are listed in Appendix I of the convention.

Select the correct code:

- (a) 1 and 2 only      (b) 1, 2 and 3 only  
(c) 2, 3 and 4 only      (b) All of the above

**Q79.** According to the BONN Convention, which of the following "Vulture species" set to get highest protection by the convention?

1. Red-headed Vulture
2. White rumped Vulture
3. Indian Vulture
4. Slender-billed Vulture
5. Black-billed Vulture

Codes:

- (a) 1, 2 and 3 only      (b) 2, 3 and 4 only  
(c) 1, 2, 3 and 4 only      (d) All of the above

**Q80.** In CMS, which of the following is conserved?

1. Whale Shark      2. Blue Shark
3. Common guitarfish      4. Caspian seal

Select the correct code:

- (a) 1, 2 and 3 only      (b) 2, 3 and 4 only  
(c) 1, 3 and 4 only      (d) All of the above

**Q81.** According to UNFCCC-COP-23, consider the following statements:

1. Aim is to "Prevent dangerous anthropogenic interference with the climate system".
2. Nations attending the COP-23 are scheduled to finalise the rule book of Paris agreement.
3. The rule book of Paris agreement are regarding 2<sup>nd</sup> commitment of Kyoto period.
4. CDM, JI, and Emission trading are Mechanisms of COP-23.

Which of the above statement(s) is/are **incorrect**?

- (a) 1 and 2 only      (b) 2 and 3 only  
(c) 3 and 4 only      (d) All of the above

**Q82.** ISM (Improved Samba Masuri) was recently in News:

1. It is product of CCMB and IRRI.
2. It is a Transgenic Plant.
3. It is resistant to bacterial blight and it has low glycemic index (GI).
4. ISM is suitable for Diabetic patients.

Select the correct code:

- (a) 1, 2 and 3 only      (b) 2, 3 and 4 only  
(c) 3 and 4 only      (d) All of the above

**Q83.** Which of the following is true?

1. Montreal protocol is regarding ODS and GHG.
2. Kigali amendment is regarding Ozone depleting substances.
3. The Kigali amendment will binds the countries to their HFC reduction schedules from 2019.
4. Paris Agreement that will come into force by 2020 is legally binding on Developed Countries.

Codes:

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

**Q84.** Consider the following pairs:

1. TRAFFIC	Oversees trading of animals and plants
2. International Solar Alliance	Intergovernmental collaboration to develop solar power
3. PETA	Intergovernmental forum for protection of animal rights
4. Globally Important Agricultural Heritage System	An FAO initiative to recognise agricultural systems

Which of the above pairs is/are correctly matched?

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

**Q85.** With reference to the 'Global Environmental Outlook', consider the following statements:

1. It is a series of reports on the environment issued periodically by the 'United Nations Environmental Programme'.
2. The Global Environmental Outlook said the worst impacts of climate changes are projected to occur in the tropical regions of the world.

Which of the above statement(s) is/are correct?

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

**Q86.** In early 2015, four new mission to boost response to climate change were added to NAPCC (National Action Plan on Climate Change):

1. Wind Energy Mission
2. Human Health Mission
3. National Mission for Sustaining the Himalayan Ecosystem
4. Waste-to-energy Mission

Select the correct code:

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

**Q87.** The 'State of the World's Forests' report is published by:

- (a) United Nations Environment Programme (UNEP)  
(b) World Meteorological Organisation (WMO)  
(c) United Nations Framework Convention on Climate Change (UNFCCC)  
(d) Food and Agriculture Organization (FAO)

**Q88.** Consider the following statements regarding TRAFFIC network:

1. It is a non-governmental organisation working in monitoring global wildlife trade.
2. It was jointly established by the IUCN and WWF.
3. It was implemented in response to CITES.

Which of the above statement(s) is/are correct?

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

**Q89.** With reference to the aquatic ecosystem, the term 'winterkill' refers to:

- (a) Death of animals during winters in polar regions due to cold.  
(b) Extermination of dinosaur during the last ice age.  
(c) Death of aquatic species due to increased size of ozone hole during winters.  
(d) Loss of fishes in a water body due to lack of photosynthesis due to ice cover in the water body.



through additional forest and tree cover by 2030.

Which of the above statement(s) is/are correct?

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

**Q98.** Consider the following statements:

1. Vulnerability is the degree of susceptibility to the adverse effects of climate change.
2. Mitigation refers to technological change and substitution that reduce resource inputs with respect to climate change.
3. Adaptation to climate change refers to adjustment in systems in response to actual or expected climatic stimuli or their effects, which moderates harmful effects or exploits beneficial opportunities.

Which of the above statement(s) is/are correct?

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

**Q99.** Consider the following statements regarding Kyoto Protocol:

1. The Detailed rules for the Implementation of the Protocol were adopted at COP 7, Marrakesh, Morocco (2001) called as "Marrakesh Accords".

2. During second commitment period parties committed to reduce GHG emissions by atleast 18% below their 1990 level in 8 year period from 2012-2020.
3. Kyoto protocol places a heavier burden on developed Nations under its CBDR.
4. CDM helps non Annex I parties in achieving emission reduction targets.

Select the correct code:

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

**Q100.** Which of the following is **not** true?

1. JI (Joint Implementation) is the source of income of UNFCCC Adaptation fund.
2. CCS (CO<sub>2</sub> capture and storage) in geological formations is not CDM project activities.
3. JIM (Joint Implementation Mechanism) is identical to CDM (Clean Development Mechanism) but in case of CDM a developed country can set a project only in developing countries whereas in Joint Implementation Mechanism any signatory developed country can set a project in developed country only which is signatory to Kyoto Protocol.

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