



All India Civil Services Coaching Centre

(Under the aegis of Government of Tamil Nadu)

TEST BOOKLET

Test 10 – Environment

Time Allowed: 2 Hours

Maximum Marks: 200

INSTRUCTIONS

1. IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS TEST BOOKLET DOES NOT HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET
2. You have to enter your Name on the Test Booklet
3. This Test Book contains 100 items (questions). Each it 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. In any case, choose ONLY ONE response for each item.
4. You have to mark all your response ONLY on the separate sheet provided along with the Test Booklet.
5. All items Carry equal marks. There will be **penalty (negative marking)** for wrong answers marked by you in the Answer sheet.
6. There are four alternatives for the answers to every question. For each question for which a wrong answer has been given by the candidate, one third ($\frac{1}{3}$) of the marks assigned to that question will be deducted as penalty.
7. 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 same penalty as above for that question.
8. If a question is left blank i.e., no answer is given by the candidate, there will be no penalty for that question.

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- Consider the following statements regarding the Terrestrial Ecosystem:
 - It is a land-based ecosystem.
 - Diversity in topographic features influences biotic and abiotic factors.
 - Moisture and temperature are the most limiting factors of this ecosystem.Which of the above statements are correct?
 - 1 and 2 only
 - 2 and 3 only
 - 1 and 3 only
 - 1, 2 and 3
- Which of the following are the features of the Tundra forests?
 - It occupies the northern part of Russia, Canada and the island group of Arctic Ocean.
 - On the south pole, tundra forests are covered by the ocean.
 - Musk ox, arctic hare, and caribous are found in these forests.Select the correct answer using the code given below:
 - 1 and 2 only
 - 2 and 3 only
 - 1 and 3 only
 - 1, 2 and 3
- With reference to the Tropical seasonal forests, consider the following statements:
 - They are known as boreal forests.
 - They are present in Southeast Asia, North and South America, the Southeastern part of Australia and India.Which of the above statements is / are incorrect?
 - 1 only
 - 2 only
 - Both 1 and 2
 - Neither 1 nor 2
- Consider the following description: "These forests are found in Madhya Pradesh, Gujarat, Andhra Pradesh, Karnataka, and Tamil Nadu. The canopy of the trees does not normally exceed 25 meters. The common trees are the sal, a variety of acacia, and bamboo." Which of the following forests is described in the above-given description?
 - Tropical Dry deciduous forests
 - Tropical thorn forests
 - Tropical evergreen forests
 - None of the above
- Consider the following statements regarding Subalpine forests of India:
 - It extends from Kashmir to Arunachal Pradesh.
 - In the Western Himalayas, the vegetation consists mainly of juniper, rhododendron, willow, and black currant.
 - In the eastern parts, red fir, black juniper, birch, and larch are the common trees.Which of the above statements are correct?
 - 1 and 2 only
 - 1 and 3 only
 - 2 and 3 only
 - 1,2 and 3
- Deforestation is the permanent destruction of forests in order to make the land available for other uses. In this context which of the following are the causes of deforestation?
 - Overgrazing
 - Agriculture
 - Urbanization
 - FireSelect the correct answer using the code given below:
 - 1 and 2 only
 - 1,2 and 3 only

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

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

7. Based on climatic conditions there are six types of grasslands found in the different regions of the Indian subcontinent.

In this context consider the following statements:

1. The semi-arid zone covers the northern portion of Gujarat, Rajasthan (excluding Aravallis), western Uttar Pradesh, Delhi, and Punjab.
2. The dry sub-humid zone covers the whole of peninsular India (except Nilgiri).
3. The humid montane region extends to the humid montane regions and moist sub-humid areas of Assam, Manipur, West Bengal, Uttar Pradesh, Punjab, Himachal Pradesh, and Jammu and Kashmir.

Which of the above statements are correct?

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

8. Which of the following pair is/are incorrectly matched?

1. Freshwater ecosystems: Springs
 2. Marine ecosystems: Estuaries
 3. Brackish water ecosystems: Shallow seas
- Select the correct answer using the code given below:

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

9. In aquatic ecosystems, oxygen is dissolved in water, where its concentration varies constantly depending on factors that influence the input and output of oxygen in the water. In this context, consider the following statements:

1. Oxygen enters the aquatic ecosystem through the air-water interface.
2. The amount of dissolved oxygen present in water is not influenced by temperature.

Which of the above statements is/are incorrect?

- (a.) 1 only

10. Which of the following pair are incorrectly matched regarding the types of lakes on the basis of nutrient content?

1. Oligotrophic: highly nutrient-rich
2. Mesotrophic: moderate nutrients
3. Eutrophic: very low nutrients

Select the correct answer using the code given below:

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

11. Eutrophication is an enrichment of water by nutrient salts that causes structural changes to the ecosystem. In light of this statement, which of the following impacts of eutrophication is incorrect?

- (a.) Increased production of algae and aquatic plants
- (b.) Depletion of fish species
- (c.) Deterioration of water quality
- (d.) None of the above

12. With reference to the harmful algal blooms, which of the following statements is/are correct?

- (a.) They are major producers of oxygen and food for many aquatic animals.
- (b.) These produce harmful toxins that affect aquatic organisms.
- (c.) They are generally of single colour
- (d.) Both (a) and (b)

13. How are Harmful Algal Blooms (HABs) dangerous to fish and humans?

- (a.) It depletes dissolved oxygen level in water.
- (b.) It produces neurotoxins that could affect higher form aquatic organisms.
- (c.) It impact commercial farming and tourism.
- (d.) All of the above.

14. Consider the following statements regarding Seaweeds:
1. The Seaweeds are macrophytic algae having well-developed roots and stems.
 2. Seaweeds grow in the shallow waters.
 3. Seaweeds provide a valuable source of raw materials for industries like fertilizer and textile.
 4. Seaweeds are rich in minerals and vitamins.
- Which of the above statements are correct?
- (a.) 1, 2 and 3 only
 - (b.) 2, 3 and 4 only
 - (c.) 3 and 4 only
 - (d.) 1, 2, 3 and 4
15. The different variety of living organism present on the earth is known as:
- (a.) Community diversity
 - (b.) Genetic diversity
 - (c.) Species diversity
 - (d.) Ecosystem diversity
16. With respect to the measurement of Species richness of a Biodiversity, which of the following is not the measure of the number of species found in a community?
- (a.) Alpha diversity
 - (b.) Beta diversity
 - (c.) Gamma diversity
 - (d.) Delta Diversity
17. Biodiversity provides a number of natural services for the human being. "Soils formation" and "Nutrient storage" comes under the category of:
- (a.) Ecosystem services
 - (b.) Biological services
 - (c.) Social services
 - (d.) None of the above
18. 'A Realm is a continent or sub-continent sized area with unifying features of geography and fauna & flora'. Which of the following is not one of eight recognized biogeographic realms?
- (a.) Nearctic realm
 - (b.) Palearctic realm
 - (c.) Australian realm
 - (d.) Icelandic realm
19. 'Body divided into segments, do not have limbs'. The description is of which class of animals?
- (a.) Arachnids
 - (b.) Annelids
 - (c.) Crustaceans
 - (d.) Molluscs
20. Which of the following statement is incorrect with respect to 'Pteridophytes'?
- (a.) These are plants have well differentiated plant bodies.
 - (b.) Vascular tissues/bundles are absent in them.
 - (c.) They are abundant in the North-eastern region of India.
 - (d.) Horse-tail is a universally present plant in this category.
21. Sal, Silk cotton-trees, giant bamboos and tall grass meadow is dominant vegetation of which Himalayan region?
- (a.) High altitude western Himalayas
 - (b.) Tarai or foothill region of Himalayas
 - (c.) High altitude the eastern Himalayas
 - (d.) Trans-Himalayan region
22. Which of the following is/are the negative effects of frost on plants?
- (a.) It freezes the soil moisture resulting in decreased moisture supply by roots to the plant.
 - (b.) It leads to the formation of a canker.
 - (c.) It increases the concentration of salts and dehydration of plant cells by freezing water in the intercellular spaces of the plant.
 - (d.) All of the above.
23. Identify the Invasive Faunal species found in India:
- (a.) Peacock
 - (b.) Pigeon
 - (c.) Gaur
 - (d.) Indian Sloth Bear
24. Which of the following Invasive Alien species in India has its nativity to Peru Region?
- (a.) Prickly Poppy
 - (b.) Mad Plant

- (c.) Four 'o'clock plant
(d.) Water Hyacinth
25. Identify the incorrect statement with respect to Cycads:
- (a.) It is a Gymnosperm tree and is known as a Living fossil.
(b.) It has been used as a source of starch.
(c.) It is distributed in the regions of the Western Ghats and North East India.
(d.) All of the above statements are correct.
26. Which of the following is a type of Adventitious root found in a tree?
- (a.) Buttress
(b.) Prop Root
(c.) Stilt Root
(d.) All of the above
27. The structure produced from the combination of modified rootlets with fungal tissue is known as?
- (a.) Haustorial root
(b.) Taper
(c.) Mycorrhiza
(d.) None of the above
28. Which of the following tree is a partial root parasite?
- (a.) Sandal Tree
(b.) Sal Tree
(c.) Bamboo Tree
(d.) Neem Tree
29. Which of the following is not a natural cause of loss of biodiversity?
- (a.) Landslides
(b.) Extension of agriculture
(c.) Lack of pollination
(d.) Seismic activity destruction
30. Which among the following is not a Stochastic process responsible for species extinction?
- (a.) Decreased food supply
(b.) Spread of disease
(c.) Increase of competitors
(d.) Glaciations
31. How deforestation affect/affects the environment?
- (a.) Low level of groundwater level and rate of transpiration
(b.) Soil erosion
(c.) Degradation of habitat
(d.) All of the above
32. Consider the following statements:
1. Decrease in capacity of the agricultural areas to host wildlife
 2. International trade and transport
 3. Mariculture
 4. Desiccation of soils and wetlands
 5. Beam trawling
- Which of the above are the major threats to biodiversity on Earth?
- (a.) 1, 4 and 5 only
(b.) 2 and 3 only
(c.) 1, 3 and 4 only
(d.) 1, 2, 3, 4 and 5
33. The extinction of species may take place due to environmental factors like ecological substitutions. In this respect, consider the following statements:
1. The threat of extinction increases as the size of the distribution range increases.
 2. Specialized organisms are less vulnerable to extinction as compared to non-specialized ones.
 3. Species at higher trophic levels are more susceptible to extinction than species at lower trophic levels.
- Which of the above statements is/are incorrect?
- (a.) 1 and 2 only
(b.) 2 only
(c.) 3 only
(d.) 1, 2 and 3
34. The Nile Perch introduced in Lake Victoria (East Africa) caused the extinction of more than 200 species of native fish, cichlid fish in the lake is an example of the loss of biodiversity due to:
- (a.) Alien species invasions
(b.) Co-extinction
(c.) Habitat loss and fragmentation
(d.) Over-exploitation

35. Which of the following statements is/are correct about the invasive species?

1. Exotic species became invasive in nature when the area does not have its natural predator.
2. Invasive species have rapid reproduction and high dispersal ability.
3. Invasive species can change the food web in an ecosystem by destroying or replacing native food sources.

Select the correct answer using the code given below:

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

36. Ex-situ Conservation means conserving biodiversity outside the areas where they naturally occur. Which of the following is a prominent method of Ex-situ conservation?

- (a.) National Parks
- (b.) Wildlife Sanctuaries
- (c.) Reserved Forests
- (d.) Botanical Garden

37. 'It is an area owned by the State Government adjacent to National Parks and sanctuaries for protecting the landscape, seascape, and habitat of fauna and flora'. The description is of which type of protected area?

- (a.) Conservation Reserve
- (b.) Community Reserve
- (c.) Biosphere Reserve
- (d.) None of the above

38. Identify the incorrect statement with respect to Tiger Reserves:

- (a.) Tiger Reserves are notified areas governed under Project Tiger for the protection of the tiger and its prey.
- (b.) Project Tiger is a centrally sponsored scheme launched in 1973 for the conservation of highly endangered Indian tiger species.
- (c.) Orang Tiger Reserve of Assam is the latest addition to India's Tiger Reserve.
- (d.) All of the above statements are correct.

39. Identify the incorrect statement with respect to Elephant Corridors in India:

- (a.) It is a stretch of forested land that connects smaller habitats with the elephant population forming a conduit for animal movement.
- (b.) In India, there are 88 identified elephant corridors with only a few under complete forest cover.
- (c.) The North East region of India has the highest number of elephant corridors.
- (d.) All of the above.

40. 'These are patches of forests or natural vegetation that are usually dedicated to local folk deities'. The description is of:

- (a.) Traditional forests
- (b.) Sacred Groves
- (c.) Religious Parks
- (d.) None of the above

41. What are the characteristics of the hotspots of biodiversity?

- (a.) Regions of the world that are rich in biodiversity.
- (b.) It promotes in situ conservation of biodiversity.
- (c.) It is an area that supports more than 1500 endemic species.
- (d.) All of the above

42. Which of the following Bird Sanctuary is the second habitat in the world that is visited by the Siberian Cranes in winter?

- (a.) Bharatpur Bird Sanctuary, Rajasthan
- (b.) Sultanpur Bird Sanctuary, Haryana
- (c.) Salim Ali Bird Sanctuary, Goa
- (d.) Kumarakom Bird Sanctuary, Kerala

43. What is the IUCN status of Great Indian Bustard?

- (a.) Critically Endangered
- (b.) Endangered
- (c.) Vulnerable
- (d.) Least Concerned

44. Identify the incorrect statement with respect to Indus Dolphin:
- Indus Dolphin is a blind species that communicate through echos like bats.
 - It is found only in India and Pakistan.
 - IUCN has categorized it as Endangered species.
 - All of the above statements are correct.
45. Which of the following statement is incorrect with respect to Gangetic Dolphin?
- It is also known by the name of SUSU and is classified as endangered species by IUCN.
 - It is listed in the Schedule I of the Wildlife Protection Act 1972.
 - Gangetic Dolphin is endemic to India.
 - None of the above statement is incorrect.
46. Find the correct statement related to Sumatran Rhinoceros species:
- It is the largest of all five Rhino species found in the world.
 - It is categorized as Endangered species as per the IUCN Red List.
 - It is regionally extinct in India.
 - None of the above
47. Which of the following statements is correct regarding Himalayan Quail?
- It is habituated in the Tropical dense rain forest areas.
 - IUCN has categorized it as an Endangered species.
 - It is a similar species of Spoon-billed Sandpiper.
 - None of the above statements is correct.
48. Identify the incorrect statement regarding Fire Corals:
- They are generally found in murky inshore waters.
 - They have less temperature sensitivity and can survive in wide temperature variations.
 - Fire Corals are distributed in regions of Indonesia, Gulf of Chiriquí, Panama Pacific Province.
 - None of the above statement is incorrect.
49. Which among the following is not the reason for Bird Migration?
- To avoid adverse factors such as an extreme climatic condition
 - To manage food shortage
 - Less competition for safe nesting places
 - All of the above are reasons for Bird Migration
50. Which of the following is not a Winter Migratory Bird?
- Siberian Crane
 - Greater Flamingo
 - Cuckoo
 - Wood Sandpiper
51. Taking note of mangrove ecosystems, 'pneumatophores' refer to:
- Capacity for saltwater tolerance
 - Adventitious roots emerging from the main trunk of tree above ground level
 - Aerial, erect roots rising from the ground
 - Looping roots arising from the lower branches
52. With respect to mangrove profile in India, choose the correct statement:
- Sunderbans mangroves are the largest single block of mangroves in the world.
 - The largest mangroves in Indian subcontinent are the mangroves of Bhitarkanika (Odisha)
 - Mangroves are mostly scrubby and degraded on the east coast of India
 - Taller strands of mangroves are found in Gulf of Kutch
53. Coral is a living animal having a symbiotic relationship with 'zooxanthellae' algae. In this respect, select the correct statement:
- Zooxanthellae live up on coral to get adequate light.
 - Corals supply zooxanthellae with nutrients which it cannot get on the seafloor.
 - Zooxanthellae protect the corals from ocean predators like big fish, sharks etc.
 - All of the above

54. Wetlands are transitional areas intermediate in character between deep water and terrestrial habitats. Which of the following is not a characteristic of wetland ecosystem?
- Areas of marine water with depth at low tide exceeding 6 metres.
 - Waterlogged soils for at least 7 days during the growing season.
 - Hydrophytes
 - Hydric soils
55. Choose the correct statement regarding estuaries:
- Tectonic processes are not responsible for estuary formation.
 - Salinity is the only limiting factor affecting the growth and distribution of organisms in an estuary.
 - Sea level changes can be responsible for estuary formation.
 - None of the above
56. Identify the reasons behind land degradation:
- Deforestation, overgrazing, and mining
 - Discharging of industrial effluents as waste pollutes land and water bodies
 - Grinding of limestone for cement industry
 - All of the above
57. With respect to the impact of population growth on the environment, which among the following statement is/are correct?
- Conversion of natural grasslands to agricultural fields
 - Reducing the water table
 - Slum development and pollution
 - All of the above
58. Forests provide habitat and food as well as protection to wildlife species against extremes of climate. In light of this statement, which of the following statement is/are incorrect?
- Climate, soil type are the only main factors that determine the type of forest.
 - Forest facilitates the discharging of ground water.
 - Forest plays an important role in the cycling of water, and nitrogen only.
 - All of the above
59. Which of the following is/are characteristics of non-conventional sources of energy?
- These causes low emission of harmful gases.
 - They are renewable sources of energy like solar energy.
 - Biomass is a major contributor to indoor pollution.
 - All of the above
60. Biomethanation is a:
- Process in which waste is directly burned in the presence of excess oxygen at high temperatures.
 - Process of chemical decomposition of organic matter brought about by heat.
 - The process by which organic material is microbiologically converted under anaerobic conditions to biogas.
 - Process of producing two forms of energy from one fuel.
61. Consider the following statements about the primary pollutants:
- These persist in the form in which they are added to the environment.
 - DDT, plastic and peroxyacetyl nitrate (PAN) are examples of primary pollutants.
- Which of the above statements is/are correct?
- 1 only
 - 2 only
 - Both 1 and 2
 - Neither 1 nor 2
62. Pollution is defined as 'an addition or excessive addition of certain materials to the physical environment (water, air, and lands), making it less fit or unfit for life'. In this context, which of the following are causes of pollution?
- Uncontrolled growth in the human population
 - Rapid industrialization
 - Urbanization
 - Uncontrolled exploitation of nature
- Select the correct answer using the code given below:
- 1 and 2 only

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

63. Ozone at the ground level is a pollutant with highly toxic effects. In this context, consider the following statements:

1. Vehicles and industries are the major sources of ground-level ozone emissions.
2. It lowers our resistance to cold and pneumonia.

Select the correct answer using the code given below:

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

64. Consider the following statements about indoor pollution:

1. In rural areas, traditional fuels such as firewood, charcoal, and cow dung for cooking and heating are the main causes of indoor pollution.
2. In urban areas, exposure to indoor air pollution has increased due to the construction of more tightly sealed buildings, reduced ventilation and the use of synthetic materials for building and furnishing, etc.

Which of the above statements is/are correct?

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

65. Which of the following factors determines the strength of wet deposition of an acid rain?

- (a.) The acid content in water
- (b.) Buffering capacity of the soils involved
- (c.) Dependant on water
- (d.) All of the above

66. Which of the following statements is /are correct about the point source of water pollution?

1. Pollutant travels directly from source to water.
 2. These sources are difficult to regulate.
- Select the correct answer using code given

below:

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

67. Which of the following statements correctly defines the Putrescibility?

- (a.) It is the process of decomposition of organic matter in water by micro organisms using oxygen.
- (b.) It is a process in which hemoglobin reacts with non-functional methaemoglobin and impairs oxygen transport.
- (c.) It is a process in which water is purified by extracting toxic materials and heavy metals.
- (d.) It is a process of treatment of sewage water.

68. Oil Spill is one of the most dangerous of all water pollutants. In this context, which of the following statements is correct?

- (a.) Oil spills at sea decrease the oxygen level in the water.
- (b.) They are not a source of air pollution.
- (c.) Living organisms are immune to oil spills.
- (d.) They are not a source of groundwater pollution.

69. Excess nitrate in drinking water reacts with haemoglobin to form non-functional methaemoglobin and impairs oxygen transport. Which of the following diseases correctly describes this condition?

- (a.) Acute coronary syndrome
- (b.) Blue baby syndrome
- (c.) Hemoglobin Lepore syndrome
- (d.) Kowarski syndrome

70. Identify the correct statement relating to Algal Blooms:

- (a.) Coldwater is the main cause of an increase in algal blooms.
- (b.) It does not influence the colour of the water.
- (c.) It depletes the level of oxygen in the water.
- (d.) All of the above

71. Exposure to which of the following e-waste metal is known to cause damage to our DNA?
- Cadmium
 - Hexavalent Chromium
 - Beryllium
 - Barium
72. It is a process of combustion in the absence of oxygen or the material burnt under a controlled atmosphere of oxygen. It is an alternative to incineration. Identify the process mentioned in the above description:
- Pyrolysis
 - Composting
 - Vermiculture
 - Putrescibility
73. Which among the following are the factors on which effects of radioactive pollutants depend upon?
- Rate of diffusion and deposition of the pollutant.
 - Number of protons and electrons
 - Reflection of electromagnetic waves
 - All of the above
74. Which of the following are man-made sources of radioactive pollution?
1. Terrestrial radiations from radio-nuclides present in earth's crust
 2. Uranium mining
 3. Radiation therapy
 4. Transportation of nuclear material
- Select the correct answer using the code given below:
- 1 and 2 only
 - 1, 2 and 3 only
 - 2 and 4 only
 - 2, 3 and 4 only
75. Which of the following bacteria is used to detoxify toluene and ionic mercury which are released from radioactive nuclear waste?
- Deinococcus radiodurans
 - Deinococcus-Thermus
 - Thermus aquaticus
 - Micrococcus
76. Which of the following gas serves as a baseline for other Global Warming Potential values?
- Methane
 - Carbon Dioxide
 - Carbon Monoxide
 - Nitrogen Dioxide
77. Increased level of carbon dioxide in the atmosphere would impact the plants in which of the following ways?
1. A decrease in the photosynthetic productivity of plants.
 2. The proliferation of weeds.
 3. Increase in the number of insects and other pests.
- Select the correct answer using the code given below.
- 1 and 2 only
 - 1 and 3 only
 - 2 and 3 only
 - 1, 2 and 3
78. Which of the following are the main component gases of Green House Gas emission?
1. Carbon dioxide
 2. Methane
 3. Nitrogen
 4. Nitrous oxide
- Select the correct answer using the code given below:
- 1, 2 and 3 only
 - 1, 2 and 4 only
 - 3 and 4 only
 - 1, 2, 3 and 4
79. With reference to extra-terrestrial causes of climate change, consider the following statements:
1. An increase in the number of sunspots leads to warmer and drier conditions on Earth.
 2. As the orbital eccentricity of earth increases, summer days increase in both the hemispheres.
 3. The axial tilt of Earth's rotational axis controls the duration of seasons.
- Which of the above statements is/are correct?
- 1 only
 - 3 only

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

80. Consider the following statements:

1. Bovines emit methane due to belching.
2. Livestock grazing between land and streams destabilizes stream banks.
3. Manure contains high amounts of nitrogen, phosphorous, and potassium which causes contamination of groundwater.
4. Livestock grazing leads to the reseeding of natural meadows which impact native species.

Which of the above statement are correct?

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

81. Which of the following activities are permitted in a Coastal Regulated Zone (CRZ)?

1. Sand and Rock mining
2. Creation of Storm Water Drains
3. Atomic Energy projects
4. Land-filling
5. Conveying systems and pipelines

Select the correct answer using the code given below:

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

82. What is the correct chronological order of the enactment of the following Acts related to the environment?

1. The Environment Protection Act
2. The Water Prevention and Control of Pollution Act
3. The Air Prevention and Control of Pollution Act

Select the correct answer using the code given below:

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

83. Goa Preservation of Trees Act has redefined the definition of tree. Which of the following statement correctly defines it?

- (a.) A tree is a plant with a main trunk and branches.
- (b.) A tree is a plant having a single stem or trunk growing to a considerable height with or without branches.
- (c.) A tree is a plant that starts its life as an epiphyte and grows to a considerable height.
- (d.) None.

84. Which of the following can be an air pollutant as per the Air (Prevention and Control) of Pollution Act, 1981?

1. Lead
2. Ozone
3. Noise
4. Suspended Particulate Matter

Select the correct answer using the code given below:

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

85. Which of the following statements is/are correct about Biological Diversity Act, 2002?

1. This act was brought to realize the objectives of the Bonn Convention.
2. It aims at fair and equitable sharing of benefits arising out of the utilization of genetic resources.
3. This act establishes a two-tier structure at the National & State level only to regulate access to the biological resources.

Select the correct answer using the code given below:

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

86. A Joint Conference of Parties (CoP) to the BRS (Basel, Rotterdam, and Stockholm) Conventions was recently held in Geneva. Consider the following statements in this regard:

1. Parties to the Basel Convention included

plastic wastes in the Prior Informed Consent (PIC) procedure.

2. New chemicals were listed under both the Rotterdam and Stockholm Conventions.
3. India had major reservations regarding the adoption of technical guidelines on environmentally sound management of electrical and electronic wastes.

Which of the above statements is/are correct?

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

87. Globally Important Agricultural Heritage Systems (GIAHS) was launched to create public awareness & safeguard world agricultural heritage sites. Which of the following sites finds its place in the GIAHS list from India?

1. Traditional Agriculture Systems Koraput, Odisha.
2. Kuttanad below Sea Level Farming System in Kerala.
3. Saffron Heritage of Pampore, Jammu & Kashmir.

Select the correct answer using the code given below:

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

88. With reference to 'The United Nations Office for Disaster Risk Reduction', consider the following statements:

1. Its functions span the social, economic, environmental as well as humanitarian fields.
2. It supports the implementation, follow up, and review of the Sendai Framework for Disaster Risk Reduction.
3. It publishes the Global Assessment Report on Disaster Risk Reduction in collaboration with the World Bank.

Which of the statements given above are correct

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

89. With reference to a Special Report on Climate Change and Land as seen in the news recently, consider the following statements:

1. It is published by the Intergovernmental Panel on Climate Change (IPCC).
2. The report claims that global food wastage is also a contributor to climate change.
3. As per the report, land degradation is both the cause and consequence of climate change.

Which of the above statements is/are correct?

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

90. The Hindu Kush Himalaya (HKH) region Assessment report reveals that more than 35% of the glaciers in the region could retreat by 2100. In light of this report, consider the following statements:

1. This report has been released by the Indian Mountaineering Foundation.
2. The warming of this region can have positive affect for agriculture.
3. The number of glaciers in the Himalayan area has increased due to global warming.

Which of the above statements is/are incorrect?

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

91. With reference to the Environmental Impact Assessment, consider the following statements:

1. It takes into account inter-related socioeconomic, cultural and human-health impacts, both beneficial and adverse.
2. It aims to predict environmental impacts at an early stage in project planning and design, find ways and means to reduce adverse impacts.

Which of the above statements is/are correct?

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

92. Consider the following statements:

1. State Level Environment Impact Assessment Authority (SEIAA) and State Level Expert Appraisal Committee (SEAC) are constituted under the Environment Impact Assessment Notification of 2006.
2. EIA links the environment with development for environmentally safe and sustainable development.
3. The MoEFCC constituted the Western Ghats Experts Ecology Panel (WGEEP) in 2010 under the Chairmanship of Prof. Madhav Gadgil.

Which of the above statements is/are correct?

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

93. Consider the following statements regarding the International Whaling Commission (IWC):

1. International Convention for the Regulation of Whaling is the legal framework that established the IWC in 1946.
2. Indian Ocean Whale Sanctuary is one of the sanctuaries designated by IWC.

Which of the above statements is/are correct?

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

94. As per the government notification regarding the Pollution Index, which of the following pairs are correct?

1. White Industries : Organic Manure.
2. Red Industries : Automobile Servicing, Repairing.
3. Orange Industries : Oil & Gas Extraction.
4. Green Industries : Ayurvedic Medicines.

Select the correct answer using the code given below:

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

95. Referring to the parameters for calculation of depletion of resources, consider the following

statements:

1. The rate of depletion of resources is calculated by per capita consumption.
2. Per capita mining is calculated by dividing the amount of resource mined by the population

which is the better index of the living of standard.

Which of the above statements is/are correct?

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

96. Which among the following is correct regarding National Mission for Green India?

- (a.) It has to increase forest-based livelihood income for about 10 million households.
- (b.) To increase the green cover to the extent of 5 million hectares (mha).
- (c.) To improve the quality of existing green cover on another 10 million hectares (mha).
- (d.) All of the above.

97. With reference to the application "M-STRiPES", consider the following statements:

1. It is a GPS enabled application.
2. It has been designed by the Zoology Institute of India.

Which of the above statements is/are correct?

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

98. Which of the following is/are the main pillars of the Namami Gange Programme?

1. Sewage Treatment Infrastructure
2. River Front Development
3. Afforestation

Select the correct answer using the code given below:

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

99. India has launched Fulbright – Kalam Climate Fellowship in association with which of the following nation?

- (a.) Russia
- (b.) United States of America
- (c.) France
- (d.) Germany

100. The recent Pollution Index (PI) designed by the Government of India, to measure the thermal pollution load of industries is a function of which of the following parameters?

- 1. Quantity of emissions
- 2. Quantity of effluents
- 3. Hazardous wastes generated
- 4. Consumption of resources

Select the correct answer using the code given below:

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