
DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE ASKED TO DO SO

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TEST BOOKLET

PART TEST - 01

Environmental Ecology

Time Allowed : Two 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. ENCODE CLEARLY THE TEST BOOKLET SERIES A, B, C OR D AS THE CASE MAY BE IN THE APPROPRIATE PLACE IN THE ANSWER SHEET.
3. You have to enter your Roll Number on the Test Booklet in the Box provided alongside. DO NOT write anything else on the Test Booklet.

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4. This Test Booklet contains 100 items (questions). Each item is printed in English. 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. In any case, choose ONLY ONE response for each item.
5. You have to mark all your responses ONLY on the separate Answer Sheet provided. See directions in the Answer Sheet.
6. All items carry equal marks.
7. Before you proceed to mark in the Answer Sheet the response to various items in the Test Booklet, you have to fill in some particulars in the Answer Sheet as per instructions sent to you with your Admission Certificate.
8. After you have completed filling in all your responses on the Answer Sheet and the examination has concluded, you should hand over to the Invigilator only the Answer Sheet. You are permitted to take away with you the Test Booklet.
9. Sheets for rough work are appended in the Test Booklet at the end.
10. **Penalty for wrong Answers :**
THERE WILL BE PENALTY FOR WRONG ANSWERS MARKED BY A CANDIDATE IN THE OBJECTIVE TYPE QUESTION PAPERS.
 - (i) 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 (0.33) of the marks assigned to that question will be deducted as penalty.
 - (ii) 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.
 - (iii) 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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1. Which of the following is/are the advantages of Green manure crops?

1. They keep nutrients from leaching down beyond the reach of crops.
2. They help legumes fix nitrogen in their root nodules.
3. They deter weeds, even without the use of harmful herbicides.
4. They protect soil from erosion.
5. They can aid in soil tilling.

Select the correct answer using the code given below.

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

2. With reference to National Mission for Clean Ganga (NMCG), consider the following statements:

1. Currently the NMCG is under the Ministry of Water Resources.
2. NMCG was established by the Ministry of Environment, Forests and Climate Change for the implementation of the World Bank assisted National Ganga River Basin Project (NGRBP) of the National Ganga River Basin Authority (NGRBA).
3. NMCG is the planning, financing, monitoring and coordinating body at the Union Government.
4. NMCG is supported by State level Programme Management Groups (SPMGs).

Select the correct answer using the code given below.

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

3. With reference to Paris Climate Agreement (COP 21), consider the following statements:

1. The agreement has already come into force succeeding the Kyoto Protocol.
2. It sets binding obligation on the developed countries to provide financial resources.
3. The agreement prevents granting intellectual property rights (IPRs) for green technology.

Which of the statements given above is/are correct?

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

4. With reference to Montreal Protocol on Substances that Deplete the Ozone Layer, consider the following statements:

1. It proposes reduction in usage of Hydrofluorocarbons (HFCs) which have high ozone depletion potential.
2. Halons used in defence sector, are exempt from Montreal Protocol.
3. It is a protocol under the Vienna convention for the protection of Ozone layer.

Which of the statements given above is/are correct?

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

5. With reference to the Intergovernmental Panel on Climate Change (IPCC), consider the following statements:

1. It is a leading international body for assessment of climate change.
2. It conducts independent research to provide scientific data on climate change and its effects.
3. It was set up jointly by the World Meteorological Organization (WMO) and United Nations Environment Programme (UNEP).

Which of the statements given above is/are correct?

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

6. Which of the statements related to the "Green Energy Corridors" in India is/are correct?

1. Renewable energy from states will be evacuated directly to the national grid.
2. The project will be completely executed by the Power Grid Corporation of India.

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

7. Which of the following is/are covered under Environment Protection Act, 1986?

1. Declaration of Coastal Stretches as Coastal Regulation Zone
2. Regulation of Genetically Modified Organism (GMOs)
3. Noise Pollution (Regulation and Control) Rules
4. Penalties for violation of Ozone Depleting Substances Rules
5. Conservation of biological resources and associated knowledge

Select the correct answer using the code given below.

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

8. With reference to Zoological Survey of India (ZSI), consider the following statements:

1. It is a statutory body under Ministry of Environment and Forest.
2. It undertakes Environmental Impact Assessments with regard to fauna.
3. It prepares the Red Data Book, Fauna of India and Fauna of States.

Which of the statements given above is/are correct?

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

9. Consider the following statements about thermal pollution in a closed water body:

1. It reduces the oxygen holding capacity of the water body
2. It hampers the growth of blue green algae
3. It causes death of fishes in the aquatic system

Which of the following statements given above is/are correct?

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

10. With reference to Sangai deer, consider the following statements:

1. It is found only in Keibul Lamjao National Park
2. It is listed as an critically endangered species by International Union for Conservation of Nature (IUCN).

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 and 2

11. A National Park, which lies within one of the global biodiversity hotspots in India, has the world's third highest peak in it. This park has been recently inscribed as India's first Mixed World Heritage Site on UNESCO World Heritage List. Which of the following could be that National Park?

- (a) Sunderbans
- (b) Bhitarkanika
- (c) Khangchendzonga
- (d) Nandadevi

12. With reference to greenhouse gas emissions from major countries, consider the following statements:

1. In terms of absolute emissions, India is at the second position next only to China
2. In terms of per-capita emission, India is behind both USA and China.

Which of the statements given above is/are correct?

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

13. Which of the following is the National Implementation entity of the Adaptation Fund set up under the Kyoto Protocol of the United Nations Framework Convention on Climate Change (UNFCCC)?

- (a) National Bank for Agriculture and Rural Development (NABARD)
- (b) National Biodiversity Authority
- (c) NITI Aayog
- (d) Indian Renewable Energy Development Agency (IRE-DA)

14. According to the National Institute of Wind Energy's Wind Atlas, arrange the following states in the decreasing order of their Wind Energy Potential.

- 1.Kerala
- 2.Gujarat
- 3.Tamil Nadu
- 4.Karnataka

Select the correct answer using the code given below.

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

15. Which of the following is/are the reasons for food chains being short?

- 1. Loss of energy is progressively higher for higher trophic levels.
- 2. Species at higher levels tend to be more discrete in their feeding habits.

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

16. With reference to Ecosystem Services, which of the following are examples of Regulating Services?

- 1. Carbon sequestration and storage
- 2. Moderation of extreme events
- 3. Waste-water treatment
- 4. Maintenance of genetic diversity
- 5. Medicinal resources

Select the correct answer using the code given below.

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

17. With reference to Bonn convention, consider the following statements:

- 1. It aims to conserve terrestrial, aquatic and avian migratory species.
- 2. It is under the aegis of United Nations Environment Programme.
- 3. Raptor MoU was negotiated under this convention.

Which of the statements given above is/are correct?

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

18. Which of the following is known as the Rain forests of the oceans?

- (a) Mangroves (b) Coral reefs
- (c) Sea grass (d) Oysters

19. Which of the following are the positive impact of forest fires?

- 1. It helps fire-dependent trees in seed dispersion.
- 2. It kills diseases and harmful insects.
- 3. It cleans the forest floor.

Select the correct answer according to the codes given below.

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

20. Which of the following are objectives of India's Intended Nationally Determined Contributions (INDCs)?

1. Increase the forest cover to 33%.
2. Produce 40 per cent of electricity from non-fossil fuel based energy resources by 2030
3. Reducing emission intensity by 1/3rd by 2030.
4. Create additional carbon sink of around 3 billion by 2030.

Select the correct answer using the code given below.

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

21. Which of the following crops is/are source of Bioethanol?

1. Sugarcane
2. Jatropha
3. Wheat
4. Sorghum

Select the correct answer using the code given below.

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

22. Consider the following pairs:

1. Dandeli Anshi (Kali) Tiger reserve : Karnataka
2. Umred Karhandla Wildlife sanctuary : Madhya Pradesh
3. Nagarjunsagar Tiger Reserve: Andhra Pradesh

Which of the above pairs is / are correctly matched?

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

23. Which of the following ecological pyramids is/are upright in case of a Pond Ecosystem?

1. Pyramid of Number
2. Pyramid of Biomass
3. Pyramid of Energy

Select the correct answer using the code given below.

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

24. Which one of the following is the best description of the term 'bioremediation'?

- (a) It is the enrichment of the nutrient quality of the soil using biological agents.
- (b) It is the increase of organo-metallic compounds in the organism through energy flow in an ecosystem.
- (c) It is the use of microorganisms to degrade the environmental contaminants into less toxic form.
- (d) It is the adoption of genetic variable plants for breeding of high yielding varieties.

25. Which of the following constitute primary pollutants?

1. Particulate matter
2. Ozone
3. Sulphur Dioxide
4. Nitrogen di-oxide

Select the correct answer using the codes given below:

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

26. With reference to ecological succession, which of the following best describes 'Sere'?

- (a) It is the sequence of communities succeeding each other.
- (b) It is the first stage of succession that invades bare land.
- (c) It is the terminal stage of succession represented by climax community.
- (d) It is the community of flora and fauna preceding a bare rock.

- 27.** Consider the following statements
1. A lice sucking blood from the skin of a buffalo is an example of Parasitism.
 2. A crane perched upon a buffalo is an example for Commensalism.
- 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
- 28.** With reference to ecological succession, the term Seral stage refers to
- (a) the intermediate stage in an ecological succession.
 - (b) the final stage in the ecological succession that is in near equilibrium with the environment.
 - (c) the first stage of primary succession in an area.
 - (d) the first stage of secondary succession in areas where natural biotic communities have been destroyed .
- 29.** Which of the following are the sources of renewable energy?
- Geo-thermal energy
Biofuels
Biomass energy
Nuclear energy
- Select the correct answer using the codes given below
- (a) 1 and 3 only
 - (b) 1, 2 and 3 only
 - (c) 2 and 4 only
 - (d) 1, 2, 3 and 4
- 30.** Which of the following Ramsar Wetlands is/are of freshwater status?
1. Loktak Lake
 2. Sasthamkotta Lake
 3. Kolleru Lake
 4. Chilka Lake
- Select the correct answer using the code given below.
- (a) 1 and 3 only
 - (b) 2 and 4 only
 - (c) 1, 2 and 4 only
 - (d) 1, 3 and 4 only
- 31.** Which of the following is/are the advantages of inter-linking of rivers?
1. Improved irrigation facilities.
 2. Generation of hydropower.
 3. Flood control.
 4. Improve the health of surplus river basins.
- Select the correct answer using the code given below.
- (a) 1, 2 and 3 only
 - (b) 1 and 3 only
 - (c) 2, 3 and 4 only
 - (d) 1, 2, 3 and 4
- 32.** Consider the following:
1. Clouded leopard
 2. Cheetah
 3. Black-necked crane
 4. Pangolin
- Which of the above are naturally found in India?
- (a) 1, 2 and 3 only
 - (b) 1, 3 and 4 only
 - (c) 2 and 4 only
 - (d) 1, 2, 3 and 4
- 33.** Which of the following steps can be taken to reduce the problem of eutrophication?
1. Creating wetlands around a water body.
 2. Reducing air pollution.
 3. Using lakes for aquaculture.
- Select the correct answer using the code given below.
- (a) 1 and 2 only
 - (b) 2 only
 - (c) 1 and 3 only
 - (d) 1, 2 and 3
- 34.** Vehicular Emission Norms under the Bharat Stage emission standards cover which of the following pollutants?
1. Carbon Monoxide (CO)
 2. NOx
 3. Particular Matter (PM)
 4. sox
 5. Hydrocarbon (HC)
 6. Ozone

Select the correct answer using the code given below.

- (a) 1, 2, 3 and 5 only
- (b) 1, 3, 4 and 6 only
- (c) 1, 3, 4 and 5 only
- (d) 1, 4, 5 and 6 only

35. With reference to photochemical smog, consider the following statements:

- 1. Photochemical smog occurs in a cool, humid climate.
- 2. Presence of high levels of nitric oxide is essential for formation of photochemical smog.
- 3. Photochemical smog is chemically an oxidizing mixture.

Which of the statements given above is/are correct?

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

36. Which of the following may be classified as third generation biofuels?

- 1. Jatropha-based biofuels
- 2. Algae-based biofuels
- 3. Corn-based biofuels

Select the correct using the code given below.

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

37. Consider the following conditions.

Highly water soluble.

Long lived.

Immobile in nature.

Less dissolvable in fats.

Which among the following conditions are necessary for a pollutant to bio-magnify in the food-chain?

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

38. Consider the following statements regarding Benthic Zone of an ocean ecosystem:

- 1. It is the region extending between high tide and low tide levels.
- 2. This is the most productive zone in Ocean due to high nutrient supply.
- 3. Most of the organisms found here are luminescent.

Which of the statements given above is/are true?

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

39. Which of the following are Persistent organic pollutants (POPs)

- 1. Diclofenac
- 2. Heptachlor
- 3. Aldrin

Select the correct answer from the codes given below

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

40. In which of the following are corals **not** found?

- (a) Gulf of Kutch
- (b) Gulf of Khambat
- (c) Gulf of Mannar
- (d) None of the above

41. Species diversity enhances the stability of a given ecosystem because:

- (a) the micro-climate of the ecosystem becomes more favourable and localized.
- (b) it narrows the ecological niche of the species.
- (c) it provides alternative channels for energy flow in food web.
- (d) species diversity reduces the mean net primary productivity.

- 42.** As per Wildlife Protection Act, 1972; there is provision for absolute protection and offence in which of the following schedule?
 1. Schedule-1 2. Schedule-2
 3. Schedule-3 4. Schedule-4
 Select the correct answer using the codes given below-
 (a) 1 and 3 (b) 2 and 4
 (c) 3 and 4 (d) 1 and 2
- 43.** With reference to acidification of ocean, consider the following statements:
 1. It occurs due to the high absorption of nitrogenous based acidic compounds.
 2. Productivity of corals will increase because of the increase in nitrogenous nutrients.
 3. Introduction of seagrasses can reduce the impact of acidification.
 Which of the statements given above is/are correct?
 (a) 1 and 2 only
 (b) 3 only
 (c) 2 and 3 only
 (d) 1, 2 and 3
- 44.** Which of the following methods of conservation is/are classified as ex-situ conservation?
 1. Botanical Garden
 2. Gene Sanctuary
 3. Zoological Park
 4. Germplasm bank
 Select the correct answer using the code given below.
 (a) 1 and 3 only
 (b) 1, 3 and 4 only
 (c) 4 only
 (d) 1, 2, 3 and 4
- 45.** Consider the following statements regarding Hope Spots:
 1. These are special places that are critical to the health of the oceans.
 2. These are declared by the United Nations Environment Programme (UNEP).
 3. Lakshadweep Island in India is a hope spot.
 Which of the statements given above is/are correct?
 (a) 1 only (b) 1 and 3 only
 (c) 2 and 3 only (d) 1, 2 and 3
- 46.** Consider the following statements regarding Ethanol Blending:
 1. It reduces the import burden on account of crude petroleum.
 2. Government has mandated 5% blending of ethanol with petrol on an all-India basis.
 Which of the statements given above is/are correct ?
 (a) 1 only (b) 2 only
 (c) 1 and 2 only (d) none
- 47.** Which of the following statements regarding 'Green bonds' is correct?
 (a) The money raised from green bonds are used to fund green projects.
 (b) They were proposed in the sustainable development goals to be achieved by 2030.
 (c) These are the debt instruments used for afforestation purposes only.
 (d) These are the debt instruments issued by the International Monetary Fund.
- 48.** Which of the following is/are the advantages of using biopesticides over chemical pesticides?
 1. Protects water quality
 2. Prevents deterioration of soil quality
 3. Faster action on pests
 Select the correct answer using the code given below.
 (a) 2 only (b) 1 and 2 only
 (c) 1 and 3 only (d) 1, 2 and 3
- 49.** Which of the following best defines "edge effect"?
 (a) It refers to the changes in population or community structures that occur at the boundary of two habitats.
 (b) It refers to the changes in species composition at boundary between a terrestrial and aquatic habitat.
 (c) It refers to the reduction in species variety at the edge of the Earth's polar areas.
 (d) It refers to the near extinction of a particular species owing to imbalances in a food web.

- 50.** With reference to a National Park, consider the following statements:
1. It is bounded in north by Banas river & in south by Chambal river.
 2. It is under Project Tiger.
- Which of following National Park has all of the above characteristics?
- (a) Bandhavagarh National Park
 - (b) Ranthambore National Park
 - (c) Kanha National Park
 - (d) Gaurumara National Park
- 51.** Wetlands are areas where water regulates the environment, and any animal or plant life. Which among the following constitute wetlands?
1. Lakes
 2. Irrigated agricultural land
 3. Coral reefs
 4. Rivers
 5. Swamps and bogs
 6. Salt pans
- Select the correct answer using the code given below.
- (a) 1, 4 and 5 only
 - (b) 1, 2, 4 and 5 only
 - (c) 2, 3 and 6 only
 - (d) 1, 2, 3, 4, 5 and 6
- 52.** Consider the following:
1. Vehicules
 2. Waste water treatment
 3. Coal fired power plants
 4. Chemical fertilizer
- Which of the above add Nitrogen oxides (a strong green house gas) on Earth?
- (a) 1 and 4 only
 - (b) 2 and 3 only
 - (c) 2, 3 and 4 only
 - (d) 1, 2, 3 and 4
- 53.** Which of the following are non-point sources of pollution in rivers?
1. Surface drains carrying municipal sewage
 2. Run-off from agricultural fields
 3. Dumping of un-burnt/half-burnt dead bodies
 4. Dhobi ghats
 5. Effluents from industries
- Select the correct answer using the code given below.
- (a) 1, 4 and 5 only
 - (b) 2 and 3 only
 - (c) 2, 3 and 4 only
 - (d) 1, 2, 3 and 4 only
- 54.** With reference to Green Rating for Integrated Habitat Assessment (GRIHA), consider the following statements?
1. The ratings have been developed jointly by TERI and MoEFCC.
 2. GRIHA rating is mandatory for establishment of any new industrial building.
- Which of the statements given above is/are correct?
- (a) 1 only
 - (b) 2 only
 - (c) Both 1 and 2
 - (d) Neither 1 nor 2
- 55.** Which of the following adaptations are observed in halophytic plants?
1. Prop and stilt roots
 2. Pneumatophores
 3. Sunken stomata
 4. Vivipary
- Select the correct answer using the code given below.
- (a) 1 and 2 only
 - (b) 1, 2 and 4 only
 - (c) 3 and 4 only
 - (d) 1, 2, 3 and 4
- 56.** Which of the following best defines "edge effect"?
- (a) It refers to the changes in population or community structures that occur at the boundary of two habitats.
 - (b) It refers to the changes in species composition at boundary between a terrestrial and aquatic habitat.
 - (c) It refers to the reduction in species variety at the edge of the Earth's polar areas.
 - (d) It refers to the near extinction of a particular species owing to imbalances in a food web.

- 64.** Which of the following statements best describes biotic potential?
- It refers to the potential biomass of a population measured as dry weight per unit area.
 - It refers to the possible functional roles a species can play in an ecosystem.
 - It refers to the maximum reproductive capacity of an organism under optimum environmental conditions.
 - It refers to the minimum population of a species required to sustain a food web.
- 65.** Which of the following is/are **not** a part of National Action Plan on Climatic Change (NAPCC)?
- National Bamboo Mission
 - National Horticulture Mission
 - National Water Mission
 - National Wetland Conservation Programme
- Select the correct answer using the code given below.
- 1, 2 and 3 only
 - 1, 2 and 4 only
 - 3 and 4 only
 - 4 only
- 66.** Ecological succession is characterized by:
- Increased productivity
 - Decreased niche development
 - Increased complexity of food webs
- 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
- 67.** Urban heat island effect is the phenomenon where the temperatures in cities are higher than they are in their surrounding rural areas. The causes are:
- Concrete and Glass structures
Presence of slums
Cars and Air conditioners
Less vegetation
- Choose the Correct option:
- 1, 2 and 3
 - 3 and 4
 - 1, 3 and 4
 - 1, 2, 3 and 4
- 68.** Which of the following is/are constituents of fly ash?
- Black soot
 - Lead
 - Cadmium
 - Nickel
- Select the correct answer using the codes given below.
- 1 only
 - 2, 3 and 4 only
 - 1, 2 and 3 only
 - 1, 2, 3 and 4
- 69.** Identify the INCORRECTLY matched pair with respect to ground water pollution.
- Arsenic contamination - West Bengal.
 - Uranium contamination - Punjab.
 - Excess fluorine contamination - Telangana
- Select correct answer using the codes given below:
- 1 and 2 only
 - 2 and 3 only
 - 1 only
 - None
- 70.** Which among the following are used to decide a "Biodiversity Hotspot?"
- Endemism
 - Presence of exotic species
 - Threat perception
 - Exploitation
- A, B are true
 - B, C are true
 - A, C are true
 - All are true
- 71.** With reference to 'Unnat Jyoti by Affordable LEDs for All Scheme' (UJALA), which of the following statements is/are correct?
- Its purpose is to promote using of equipment which leads to higher electricity bills to help the Government earn more revenue.
 - The Electricity Distribution Company and Energy Efficiency Services Limited (EESL) is implementing the programme.
- Select the correct answer using the code given below.
- 1 only
 - 2 only
 - Both 1 and 2
 - Neither 1 nor 2

- 72.** Consider the following statements.
1. Acid rain on a alkaline soil causes the growth of algae and bacteria replacing fungi.
 2. The impact of acid rain on Indian soils is low because majority of the Indian soils are already acidic in nature.

Identify the correct statement/s based on the given below options

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

- 73.** Which of the following are the possible effects of global warming?

1. The rate of decomposition of organic matter will increase
2. Sowing period will decrease
3. Faster deterioration of soil quality

Select the correct answer using the codes given below.

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

- 74.** With reference to 'Eco-Sensitive Zones', which of the following statements is/are correct?

1. Eco-Sensitive Zones are the areas that are declared under the Wildlife (Protection) Act, 1972.
2. In this regard government has set-up two committees under Madhav Gadgil and Kasturi Rangan.

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

- 75.** Arrange the following ecosystems in the increasing order of their mean net primary productivity.

1. Estuaries
2. Desert scrub
3. Open ocean
4. Alpine ecosystem

Select the correct answer using the code given below.

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

- 76.** Consider the following pairs:

Interspecific interactions	Example
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- | | |
|-----------------|--|
| 1. Commensalism | : Interaction between fig tree |
| 2. Amensalism | : Interaction between cattle egret and grazing cattle. |
| 3. Mutualism | : Interaction between lion and deer. |
| 4. Parasitism | : Interaction of lice and human. |

Which of the above pairs is/are correctly matched ?

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

- 77.** With reference to Nutrient Cycling, consider the following statements comparing Carbon cycle and Phosphorus Cycle?

1. Atmospheric inputs of phosphorus through rainfall is much greater than carbon inputs.
2. Gaseous exchanges of phosphorus between organism and environment is negligible as compared to carbon.

Which of the statements given above is/are **not** correct?

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

- 78.** Consider the following statements regarding Clean Environment Cess:

1. It is type of carbon tax levied on Coal, Lignite and Peat.
2. The fund raised through it is used for the National Clean Energy Fund.

Which of the statements given above is/are correct?

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

- 79.** Consider the following statements regarding Epiphytes:

1. They grow upon other plants merely for physical support.
2. They are found in both tropical and temperate regions.
3. Mosses and ferns are common epiphytes.

Which of the statements given above is/are correct?

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

80. Consider the following statements regarding the Small Hydro Power Programme(SHP):

1. Ministry of New and Renewable Energy has been vested with the responsibility of developing Small Hydro Power (SHP).
2. The minimum installed capacity of a Small Hydro Power project is 50 MW.
3. SHP's can be constructed on rivers as well as irrigation canals.

Which of the statements given above is/are correct?

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

81. Which of the following statements is/are correct regarding International Maritime Organization (IMO)?

1. It is an agency of the United Nations.
2. India is a member of IMO.
3. It is responsible for the prevention of marine pollution

Select the correct answer from the code given below.

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

82. With reference Particulate Matter 2.5 and Particulate Matter 10, consider the following statements:

1. They are short lived, remaining suspended in air only for a day.
2. In the lower atmosphere they cause chronic respiratory illness.
3. In the upper atmosphere, they tend to increase the temperature of the earth's surface.

Which of the statements given above is/are correct?

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

83. Consider the following pairs:

Diseases	Pollutants
-----------------	-------------------

- | | |
|-----------------------|-----------|
| 1. Minamata Disease | : Mercury |
| 2. Itai-Itai Disease | : Nitrate |
| 3. Blue Baby Syndrome | : Cadmium |
| 4. Black Foot Disease | : Arsenic |

Which of the pairs given above are correctly matched?

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

84. Which of the following air pollutants is/are included in the National Air Quality Index?

1. Sulphur dioxide
2. Ozone
3. Carbon dioxide
4. Lead
5. Ammonia

Select the correct answer using the code given below.

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

85. Which of the following sources contribute to the formation of acid rains?

1. Volcanic eruptions
2. Thermal Power Plants
3. Burning of coal
4. Automobile exhaust

Select the correct answer using the code given below.

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

- 86.** With reference to Stockholm Convention on Persistent Organic Pollutants, consider the following statements:
1. The convention is applicable only to twelve persistent organic pollutants referred to as "Dirty Dozen".
 2. It is under the framework of Intergovernmental Panel on Climate Change.
 3. It is legally binding on its signatories.
- Which of the statements given above is/are correct?
- (a) 1 and 2 only (b) 2 and 3 only
(c) 3 only (d) 1, 2 and 3
- 87.** Identify the INCORRECT statement from the following on Seaweed.
- (a) Seaweeds are a form of a microscopic algae.
 - (b) Seaweeds are one of the major source of iodine, which can be used for human consumption.
 - (c) Seaweeds, are an important indicators of high order algal blooms in the oceans.
 - (d) The major threats for seaweeds are increasing eutrophication and siltation.
- 88.** Which of the following statements is/are correct about a biosphere reserve?
A biosphere reserve focuses on protection of a single species rather than the entire ecosystem.
Human activity is completely prohibited in both core and buffer zones of a biosphere reserve.
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
- 89.** Which of the following is/are examples of tropical grasslands?
1. Campos 2. Selvas
 3. Llanos 4. Pampas
- Select the correct answer using the code given below.
- (a) 1 and 2 only (b) 1 and 3 only
(c) 1, 3 and 4 only (d) 4 only
- 90.** Which of the following vegetation types is **not** found in India?
- (a) Tropical Dry Evergreen Forests
 - (b) Alpine Forests
 - (c) Tropical Wet Evergreen Forests
 - (d) All the above are found in India
- 91.** Which of the following are Ozone Depleting Substances (ODS)?
1. Halons
 2. Carbon Tetrachloride
 3. Hydrochlorofluorocarbons (HCFCs)
 4. Hydrofluorocarbons (HFCs)
 5. Chlorofluorocarbons (CFCs)
- Select the correct answer using the code given below.
- (a) 1 and 3 only
(b) 1, 2, 3 and 5 only
(c) 2 and 4 only
(d) 1, 2, 3, 4 and 5
- 92.** Which of the following pollutants are considered for Ambient Air Quality Standards but **not** for National Air Quality Index?
1. Benzene 2. Arsenic
 3. Nickel 4. Lead
- Select the correct answer using the code given below.
- (a) 1, 2 and 3 only (b) 2, 3 and 4 only
(c) 1 and 4 only (d) 1, 2, 3 and 4
- 93.** Consider the following statements regarding United Nations Framework Convention on Climate Change (UNFCCC):
It was adopted at the "Rio Earth Summit" in 1992.
It is a legally binding as it sets mandatory limits on greenhouse gas emissions.
Its ultimate objective is to eliminate greenhouse gas in the atmosphere.
Which of the statements given above is/are correct?
- (a) 1 only (b) 1 and 3 only
(c) 2 and 3 only (d) 1, 2 and 3

- 94.** Consider the following pairs:
- | Species | Type of Vegetation |
|----------------|---------------------------|
| 1. Chir | : Thorny Bushes Forests |
| 2. Ebony | : Tropical Deciduous |
| 3. Sundari | : Mangrove forests |
- Which of the above pairs is/are correct?
- (a) 1 and 3 only (b) 2 only
(c) 2 and 3 only (d) 3 only
- 95.** Arrange the following steps of Environment Impact Assessment in the chronological order:
1. Management and monitoring
 2. Screening
 3. Audit
 4. Prediction and mitigation
 5. Scoping
- Select the correct answer using the code given below:
- (a) 2-5-4-3-1 (b) 5-2-3-1-4
(c) 2-5-4-1-3 (d) 5-2-3-4-1
- 96.** Arrange the following energy sources in the descending order of contribution to India's energy basket:
1. Coal
 2. Hydro-electric power
 3. Renewable energy sources
 4. Natural gas
 5. Nuclear
- Select the correct answer using the code given below:
- (a) 1-3-2-5-4 (b) 2-1-3-4-5
(c) 1-2-3-4-5 (d) 1-2-4-5-3
- 97.** With reference to Red Sanders or Red Sandalwood, a tree species often in news, consider the following statements:
1. It is an endangered species found in the
 2. Palakonda and Seshachalam hills of the Eastern Ghats.
 3. It is highly valued in the international market for its rich fragrance.
 4. It is found extensively in the tropical wet evergreen forests of India.
- Which of the statements given above is/are correct?
- (a) 1 only (b) 1 and 2 only
(c) 2 and 3 only (d) 1, 2 and 3
- 98.** Consider the following statements:
1. In an aquatic ecosystem, a larger fraction of energy flows through grazing food chain than through detritus food chain.
 2. In a terrestrial ecosystems, a larger fraction of energy flows through the detritus food chain than through grazing food chain.
- Which of the statements given above is/are correct?
- (a) 1 only
(b) 2 only
(c) Both 1 and 2
(d) Neither 1 nor 2
- 99.** With reference to Biodiversity Finance Initiative (BIOFIN), consider the following statements:
1. It is a bilateral initiative between India and France.
 2. National Biodiversity Authority (NBA) is the implementing body in India.
- 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
- 100.** With reference to 'The National Solar Mission', consider the following statements:
1. It is a major initiative of the Government of India to promote solar energy.
 2. The revised target of the mission is to achieve 100 gigawatts capacity by 2022.
- Which of the statements given above is/are correct?
- (a) 1 only
(b) 2 only
(c) Both 1 and 2
(d) Neither 1 nor 2