

1. The non-point pollution of river water involves discharge of pollutants through

- a) urban sewage drains
- b) industrial effluents
- c) agricultural fields
- d) both (a) and (b)

Answer: c) agricultural fields

2. With reference to forest ecosystems, consider the following statements :

- 1. The number pyramid is neither inverted nor upward.
- 2. The biomass pyramid is inverted.

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

Answer: a) 1 only

3. Man causes soil erosion through

- 1. use of improper ploughing methods.
 - 2. leaving roots of crop in the field after harvest.
 - 3. practicing trash farming.
 - 4. use of heavy machines.
- Select the correct answer using the codes given below.

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

Answer: b) 1 and 4 only

4. Which of the following is a part of the biogeochemical cycle ?

- 1. soils
- 2. plants
- 3. atmosphere
- 4. oceans

Select the correct answer using the codes given below.

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

Answer: d) 1, 2, 3 and 4

5. Which of the following evidences support the theory of gradual rise in air temperature and consequent global warming?

1. spreading of tropical diseases towards temperate regions.
2. downward shifting of snow lines of tropical mountains.
3. freezing of permafrost areas.

Select the correct answer using the codes given below.

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

Answer: a) 1 only

6. In ecological terms, what does the term “standing crop” signify ?

- a) total weight of whole organic matter
- b) total weight of heterotrophs
- c) total area covered by crops
- d) None of the above

Answer: a) total weight of whole organic matter

7. Biofuels are fuels extracted from plants and crops and these have various advantages.

These include

1. increasing agricultural diversity.
2. reduced use of fertilizers.
3. renewable source of energy.

Select the correct answer using the codes given below.

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

Answer: b) 3 only

8. Which among these would increase carbon dioxide in the atmosphere ?

1. deforestation
2. burning of firewood
3. automobiles

Select the correct answer using the codes given below.

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

Answer: d) 1, 2 and 3

9. The sources of mercury pollution include

1. coal fired thermal power plants.
2. supersonic jets.

3. automobiles.
4. waste incinerators

Select the correct answer using the codes given below.

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

Answer: b) 1, 3 and 4 only

10. The energy flow in an ecosystem is :

1. unidirectional
2. non-cyclic
3. cyclic
4. bidirectional

Select the correct answer using the codes given below.

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

Answer: a) 1 and 2 only

11. A balanced ecosystem is one in which the

1. number of organisms at all levels is equal.
2. amount of biomass at all trophic levels is equal.
3. organisms are interdependent on each other.

Select the correct answer using the codes given below.

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

Answer: d) none

12. Ozone depletion would impact the plant community in several ways. These include :

1. increase in photosynthesis
2. decline in water use efficiency
3. decline in yield of plants

Select the correct answer using the codes given below.

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

Answer: c) 2 and 3 only

13. With to the IUCN classification, extinct species are those which have been:

1. completely eliminated from wild areas.
2. completely eliminated from managed areas.

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

Answer: c) Both 1 and 2

14. Which among these is/are a cryogenic indicator of climate change ?

1. ice sheets and ice cores
2. sea level changes
3. lacustrine deposits

Select the correct answer using the codes given below.

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

Answer: a) 1 only

15. The Great Indian Bustard is a critically endangered species. Its population has been declining due to

1. habitat loss
2. frequent poaching
3. construction of windmills

Select the correct answer using the codes given below.

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

Answer: d) 1, 2 and 3

16. The National Air Quality Monitoring Programme (NAMP) run by Central Pollution Control Board, monitors which of the following pollutants at all locations ?

1. carbon dioxide
2. sulphur dioxide
3. oxides of nitrogen
4. suspended particulate matter

Select the correct answer using the codes given below.

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

Answer: c) 2, 3 and 4 only

17. With reference to Biological Oxygen Demand (BOD) and Chemical Oxygen Demand (COD), consider the following statements:

1. BOD is a measurement of consumed oxygen by aquatic microorganisms to decompose organic matter.
2. COD refers to the requirement of dissolved oxygen for the oxidation of organic constituents.

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

Answer; a) 1 only

18. The ecological processes follow the principle of uniformitarianism. This means :

a) the ecological processes have a uniform effect

- b) same physical and biological processes that operates today operated in the past.
- c) physical and biological processes operate with a uniform rate
- d) None of the above

Answer: b) same physical and biological processes that operates today operated in the past.

19. Fertilizers are added to supply mainly three nutrients – Nitroge (N), Phosphorous (P) and Potassium (K). Biofertilizers can supply which of these nutrients?

1. Nitrogen
2. Phosphorous
3. Potassium

Select the correct answer using the codes given below.

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

Answer: d) 1, 2 and 3

20. Which among the following are mechanical method of soil conservation ?

1. bunding
2. terracing
3. contour farming
4. stubble mulching

Select the correct answer using the codes given below.

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

Answer: a) 1, 2 and 3 only

21. Which of the following is/are have been provided for in the Wildlife Protection Act, 1972?

1. National Parks
2. Wildlife Sanctuaries
3. Biosphere Reserves

Select the correct answer using the codes given below.

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

Answer: b) 1 and 2 only

22. Which of the following Tiger reserves is/are also a National Park ?

1. Manas
2. Indravati
3. Namdapha
4. Sariska

Select the correct answer using the codes given below.

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

Answer: d) 1,2,3 and 4

23. The brown haze dome formed in cities is because of which gas?

- a) sulphur dioxide.
- b) nitrogen oxide.
- c) carbon dioxide.
- d) volatile organic compounds (VOCs).

Answer: b) nitrogen oxide

24. Water in a wetland can be:

1. Fresh
2. Brackish
3. Static

Select the correct answer using the codes given below.

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

Answer : d) 1, 2 and 3

25. A biofertilizer helps in increasing the supply of primary nutrients to plants. Which of the following is/are examples of biofertilizers?

1. Azotobacter
2. Rhizobium
3. Azospirillum

Select the correct answer using the codes given below.

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

Answer: d) 1, 2 and 3



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