

10. One big tree with many birds and insects in a large open area
- can be an example of an ecosystem
 - can't be an ecosystem due to absence of other animals
 - can't be an ecosystem due to absence of many trees
 - Both (b) and (c) are correct
11. In terms of food chain and food web, conditions for more stable ecosystem are
- Short food chain, simple food web
 - Long food chain, simple food web
 - Short food chain, complex food web
 - Long food chain, complex food web
12. Which ecological pyramid is/are always upright in nature?
- Pyramid of energy
 - Pyramid of biomass
 - Pyramid of number
 - All of above
13. Thermal pollution is related to
- Air
 - Water
 - Soil
 - Noise
14. Final stage in ecological succession is
- Death
 - Establishment
 - Climax
 - All of above
15. The average surface temperature of the Earth is about ---°C.
- 15
 - 24
 - 33
 - 18
16. Which act was enacted to safeguard environment by Government of India after Bhopal Gas tragedy?
- Water (Prevention and Control of Pollution) Act 1974
 - Air (Prevention and Control of Pollution) Act 1981
 - Environment (Protection) Act 1986
 - All of above
17. Rain water is slightly acidic in nature. It is due to
- Acid rain
 - Carbon dioxide gas
 - Carbon monoxide gas
 - Oxides of sulphur and nitrogen
18. The highest temperature is recorded
- at midday
 - in the afternoon
 - in the late evening
 - whole day
19. Ozone depletion is caused due to increase of
- Water vapor
 - Carbon dioxide
 - Chlorofluorocarbon
 - All of above
20. Human are ----- in an ecosystem
- owner
 - producer
 - consumer
 - All of above

(Descriptive)

Time : 2 hrs. 30 mins.

Marks : 50

[Answer question no.1 & any four (4) from the rest]

1. What do you mean by air pollution? Discuss causes and consequences of air pollution. 2+3+5
=10

2. Write on genetic, species and ecosystem diversity. What is biodiversity hotspot? 8+2=10

3. What is an ecosystem? Discuss structure and functions of an ecosystem. 2+4+4
=10

4. 'India is a mega diversity nation'. Justify the statement with reference to rich biodiversity of India. 10

5. Write short notes on (*any two*) 5+5=10
 - a. Acid rain
 - b. Point source and non point source of pollution
 - c. Renewable and non-renewable resources
 - d. Sustainable development

6. Write about duties and responsibilities of students in environmental protection, resource conservation and pollution control. 10

7. What is a food chain? Categorize it with suitable instances. 4+6=10

8. How solar energy could be harnessed? State the disadvantages associated with solar energy. 7+3=10

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