

# ECOSYSTEM

**Subject Code: 4300003**

**Date: 2025-04-14**

**Subject Name: ENVIRONMENTAL & SUSTAINABILITY**

**Time Duration: 39.0 minutes**

**Total Marks: 78**

## Instructions:

1. Stable Internet Required: Ensure a good connection.
2. Use Allowed Devices: Only a laptop/PC; no mobile phones or smartwatches.
3. No Switching Tabs: Changing windows may lead to disqualification.
4. Answer all questions within the given time limit. No extra time will be provided.
5. Submit the exam before the deadline, as responses will not be accepted afterward.

**1. Humans, animals, insects, are \_\_\_\_\_ component of ecosystem.**

- ☒ Biotic ☐ Abiotic ☐ Physical ☐ Chemical

2

**2. Which element is most important in the composition of biotic component ?**

- ☒ Oxygen ☐ Hydrogen ☐ Carbon ☐ Chlorine

2

**3. Babool and Cactus like plants found in**

- ☐ Coralreef ecosystem  
☒ Desert Ecosystem  
☐ Fresh water Ecosystem  
☐ Tropical Ecosystem

2

**4. Vegetables, grass, trees etc. are which type of biotic components ?**

- ☒ Producers ☐ Consumers ☐ Decomposers ☐ Transformers

2

**5. Humans and animals are which type of biotic components ?**

- ☐ Producers ☒ Consumers ☐ Decomposers ☐ Transformers

2

**6. What is approximate content of Nitrogen in the atmosphere ?**

- ☐ 72% ☐ 60% ☒ 78% ☐ 22%

2

**7. In a foodweb, human is**

- ☐ Producer  
☐ Only Primary Consumer  
☒ Primary and Secondary consumer  
☐ Only Secondary Consumer

2

**8. The component of environment made of sea, rivers, lakes etc. is called**

- ☐ Atmosphere ☒ Hydrosphere ☐ Biosphere ☐ Lithosphere

2



**9. In the food chain and food web, which component convert solar energy into food ?**

- ☐ Animals ☒ Vegetation ☐ Carnivores ☐ Bacteria

2

**10. The biotic component which feed on grass and vegetation is**

- ☒ Herbivorous ☐ Carnivorous ☐ Omnivorous ☐ Decomposers

2

**11. Which of the following is an artificial ecosystem ?**

- ☐ Forest ☐ Desert ☒ Fish House ☐ Pond

2

**12. Which is the largest ecosystem on the earth ?**

- ☐ Forests ☒ Sea ☐ Deserts ☐ Grassland

2

**13. Which of the following is an artifical ecosystem ?**

- ☐ Fishhouse ☐ Farm ☐ Space Station ☒ All of Above

2

**14. Which of the following drug used for vaternary purpose is the cause for death of vultures ?**

- ☐ Chloroquine ☒ Diclofenac ☐ Azithromycine ☐ Paracitamol

2

**15. In a a food chain**

- ☒ Energy flows from tropic level -1 to tropic level-4  
☐ Energy flows from tropic level-4 to tropic level-1  
☐ Energy does not flow  
☐ Energy flows from tropic level-4 to tropic-level-3

2

**16. In the pyramid of numbers, the population of \_\_\_\_\_ is maximum**

- ☒ Producers  
☐ Primary Consumers  
☐ Secondary Consumers  
☐ Tertiary Consumers

2

**17. Organism contain about \_\_\_\_\_ % carbon.**

- ☐ 78% ☒ 49% ☐ 21% ☐ 6%

2

**18. In cell of organism, DNA, RNA the important element is**

- ☐ Carbon ☐ Nitrogen ☐ Sulphur ☒ Phosphorus

2

**19. The forests found near sea shore on marshy land are**

- ☐ Decidious Forest ☐ Desert Forest ☒ Mangrove Forest ☐ Confierous Forest

2

**20. \_\_\_\_\_ is the critically endangered spieces in small desert of Kutch.**

- ☐ Flemingo ☒ Wild Ass ☐ Black Dear ☐ Desert Cat

2



**21. Leather back turtles are only found at**

2

- ☐ Gulf of Kutch
- ☒ Andaman Nicobar Island
- ☐ Kerela Sea Coast
- ☐ Jamnagar Sea Coast

**22. Hungal dear is found in**

2

- ☐ Assam
- ☐ Meghalaya
- ☒ Jammu - Kashmir
- ☐ Uttaranchal

**23. Which pair is incorrect ?**

2

- ☐ Great indian Bustard - Thar Desert, Rajasthan
- ☐ Wild Ass - Small Desert of Kutch
- ☐ Unico Rhino - Sundarvan Forest
- ☒ Barsinga Deer - Gujarat Gir Forest

**24. IUCN is located at**

2

- ☐ US
- ☐ Austriya
- ☐ New Zealand
- ☒ Switzerland

**25. At present how many earths are required to sustain present population on earth ?**

2

- ☐ 1.25
- ☒ 1.75
- ☐ 2.50
- ☐ 3.25

**26. The unit of ecological footprint is**

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- ☐ Acre
- ☐ Hectare
- ☒ Global Hectar
- ☐ Square Meter

**27. The major source of nitrogen deposition is \_\_\_\_\_ .**

2

- ☒ Fertilizers
- ☐ Deforestation
- ☐ Household Waste
- ☐ Factory Waste

**28. \_\_\_\_\_ is the water hidden in the products services and processes people buy and use every day.**

2

- ☐ Rain water
- ☒ Virtual Water
- ☐ Irrigation Water
- ☐ Drinking water

**29. IUCN released an updated \_\_\_\_\_ lists for classifying different species.**

2

- ☐ Blue
- ☐ Green
- ☒ Red
- ☐ Yellow

**30. IUCN Red List divided species into \_\_\_\_\_ categories**

2

- ☐ 5
- ☐ 7
- ☒ 9
- ☐ 10

**31. What percentage of the total oxygen in the earth's atmosphere is released by the amazon forest ?**

2

- ☐ 50%
- ☐ 40%
- ☒ 20%
- ☐ 2%

**32. Study of inter-relationship between organisms and their environment is \_\_\_\_\_ .**

2

- ☒ Ecology
- ☐ Ecosystem
- ☐ Phytogeography
- ☐ Ethology



**33. What is desertification ?**

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- ☐ Conservation of forest into desert
- ☐ Conservation of grassland into desert
- ☒ Conservation of cropland into desert
- ☐ All of above

**34. \_\_\_\_\_ are primary consumers.**

2

- ☒ Herbivorous ☐ Carnivorous ☐ Omnivorous ☐ All of Above

**35. The region of earth, where life exists is known as \_\_\_\_\_ .**

2

- ☐ Atmosphere ☒ Biosphere ☐ Lithosphere ☐ Hydrosphere

**36. Which type of organisms, fungi, bacteria of forest ecosystem generally called ?**

2

- ☐ Producers ☐ Consumers ☒ Decomposers ☐ Transformers

**37. In an ecosystem a wide number of interconnected chains together forms a**

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- ☐ Food Chain ☐ Carbon Cycle ☒ Food Web ☐ More than one of the above

**38. Which of the following requires maximum energy ?**

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- ☐ Secondary Consumer ☐ Primary Consumer ☐ Decomposer ☒ Primary Producer

**39. What scientific term is used for the circulation of the essential nutrient ?**

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- ☐ Biogeographic Cycle
- ☐ Biological Cycle
- ☐ Cycling of Material
- ☒ BiogeoChemical Cycle

