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Reg. No. : .....

**Code No. : 10585 E      Sub. Code : CMZO 54**

B.Sc. (CBCS) DEGREE EXAMINATION,  
NOVEMBER 2024.

Fifth Semester

Zoology — Core

ECOLOGY

(For those who joined in July 2021-2022 only)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. Which of the following are classes of abiotic factors?

- (a) Climate factors
- (b) Edaphic factors
- (c) Topographic factors
- (d) All of these

2. Which is a universal solvent?

- (a) Alcohol                      (b) Ether
- (c) Water                        (d) Benzene

3. Nitrogen is absorbed by the plants in the form of

- (a) Ammonium                (b) Nitrites
- (c) Nitrates                    (d) All

4. Conversion of nitrates to nitrogen is called

- (a) Ammonification
- (b) Nitrification
- (c) Nitrogen fixation
- (d) Denitrification

5. Plants growing under shades are called

- (a) Psamophytes
- (b) Sciophytes
- (c) Heliophytes
- (d) Monocots

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6. Which is the renewable exhaustible natural energy source?

- (a) Coal                      (b) Petroleum  
(c) Kerosene                (d) Biomass

7. The major photochemical smog is \_\_\_\_\_

- (a) Hydrogen peroxide  
(b) Chlorofluorocarbon  
(c) Peroxyacetyl nitrate  
(d) All of the above

8. Increased levels of air pollution results in \_\_\_\_\_

- (a) Soil erosion  
(b) Global warming  
(c) Respiratory problems  
(d) All of the above

9. \_\_\_\_\_ has the maximum genetic diversity in India

- (a) Potato                    (b) Tea  
(c) Mango                    (d) Teak

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10. \_\_\_\_\_ is one of the most prevalent hotspots of biodiversity in India.

- (a) Himalays                (b) Western Ghats  
(c) Ganges                    (d) Eastern Ghats

**PART B — (5 × 5 = 25 marks)**

Answer ALL questions choosing either (a) or (b).  
Each answer should not exceed 250 words.

11. (a) Enumerate the functions of ecosystem.

Or

(b) Write notes on food chain.

12. (a) Describe commensalism with example.

Or

(b) Explain mutualism in brief.

13. (a) Write short note on edge effect.

Or

(b) Summarize mangrove ecosystem.

14. (a) How to manage medical waste?

Or

(b) Comment on nuclear Hazards.

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15. (a) Record some Indian National Parks.

Or

- (b) Describe deforestation.

PART C — (5 × 8 = 40 marks)

Answer ALL questions choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) Write an essay on community Ecology.

Or

- (b) Give a brief account on any two abiotic factors.

17. (a) Explain Carbon Cycle.

Or

- (b) Discuss competition and predation.

18. (a) Write an account on freshwater ecosystem.

Or

- (b) Comment on Desert ecosystem.

19. (a) Discuss types, causes, effects and management of water pollution.

Or

- (b) Describe Air Pollution.

20. (a) Comment on Sanctuaries.

Or

- (b) Comment on endangered species.

