

(6 pages)

Reg. No. :

Code No. : 10034 E Sub. Code : CMZO 54

B.Sc. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2025.

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. The structure and functional unit of ecology is
(a) Producer
(b) Ecosystem
(c) Consumer
(d) Energy flow

2. Linear sequence of flow of energy from one organism to another is
(a) Energy flow (b) Stratification
(c) Food web (d) Food chain
3. Carbon sequestration is the process of carbon _____
(a) Storage (b) Emission
(c) Incineration (d) Reclaim
4. The microbes help to digest cellulose in the intestine of ruminant is
(a) Parasite (b) Commensal
(c) Symbiotic (d) Predatory
5. Diversity in the intermediate zone is higher due to
(a) Competition (b) No competition
(c) Edge effect (d) None of these
6. The variety and variability of living organism is called as
(a) Community (b) Population
(c) Biodiversity (d) Hot spot

7. Acid rain happens due to release of this gas in the atmosphere
- (a) Carbon dioxide
 - (b) Methane
 - (c) Sulphur dioxide
 - (d) Nitrogen
8. The size of the microplastics is less than
- (a) 10 mm
 - (b) 5 mm
 - (c) 20 mm
 - (d) 5 nm
9. The southern western ghats is one of the biodiversity
- (a) Centres
 - (b) Zone
 - (c) Hotspots
 - (d) Region
10. If many animal lives depend on one organism that is called as
- (a) Endangered species
 - (b) Key stone species
 - (c) Endemic species
 - (d) Biological species

PART B — (5 × 5 = 25 marks)

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

11. (a) Write short note on adaptations of parasitic life.
- Or
- (b) Briefly discuss about food web.
12. (a) Write short note on greenhouse effect.
- Or
- (b) Briefly discuss about commensalism.
13. (a) Explain about pioneer community.
- Or
- (b) Discuss about the estuarine ecosystem.
14. (a) Explain about biodegradable pollution.
- Or
- (b) Write short note on eutrophication.
15. (a) Explain about biodiversity hotspots.
- Or
- (b) Briefly discuss about human animal conflict.

PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b)
Each answer should not exceed 600 words.

16. (a) Discuss about different types of ecological pyramids.

Or

- (b) Write about abiotic factors and their ecological role.

17. (a) Appraise about any two nutrient cycling.

Or

- (b) Discuss about different types of animal interactions.

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

Or

- (b) Discuss about the ecological effects of dams and hydroelectric projects.

19. (a) Discuss about the causes of water pollution and its control.

Or

- (b) Discuss about the soil waste, plastic waste and medicinal waste management.

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20. (a) Discuss about the importance of conservation and the organisations involved in the conservation.

Or

- (b) Evaluate about the ex-situ and in-situ conservation practices.

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