

(6 pages)

Reg. No. :

Code No. : 10361 E Sub. Code : EMZO 52

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

Fifth Semester

Zoology — Core

ENVIRONMENTAL BIOLOGY

(For those who joined in July 2023 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. Humans act in the ecosystem as
(a) Producer (b) Consumer
(c) Decomposer (d) None
2. The relation between cattle egret and cattle is
(a) Predator (b) Mutualism
(c) Commensal (d) Parasite
3. The large scale movement of bird to a distant place for reproduction is called
(a) Emigration (b) Immigration
(c) Foraging (d) Migration
4. The maximum resource an ecosystem can offer without getting deterioration is its
(a) Ability (b) Carrying capacity
(c) Population growth (d) Abundance
5. When the mortality exceeds natality the population density will
(a) Increased (b) Decreased
(c) Stable (d) High
6. The CFC gases are responsible for
(a) Acid rain (b) Heavy rain
(c) Ozone depletion (d) None
7. Removal of heavy metals from soil through the action of earthworm is
(a) Bioaccumulation (b) Bioindicator
(c) Biomarker (d) Bioremediation

8. Algal blooms in lakes are happen due to
(a) Air pollution (b) Biomarker
(c) Eutrophication (d) Acidification
9. Sanctuaries and biosphere reserves are helpful for the
(a) In situ conservation
(b) Ex situ conservation
(c) Poaching
(d) Hunting
10. Catching wild animals illegally by traps is called as
(a) Hunting (b) Sport
(c) Trapping (d) Poaching

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 Climax community.
Or
(b) Briefly discuss about competition and predation.

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12. (a) Write short note on migration of fishes.
Or
(b) Discuss about different types of age pyramids.
13. (a) Give a brief account on global warming and green house effect.
Or
(b) Write short note on bioindicators.
14. (a) Write about soil pollution and its control.
Or
(b) What is noise pollution and how can we control it?
15. (a) Write short note on degradation of wildlife habitat and its effects.
Or
(b) Write short note on ex situ conservation.

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PART C — (5 × 8 = 40 marks)

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

Each answer should not exceed 600 words.

16. (a) Write about the structure and functions of aquatic ecosystem.

Or

- (b) Give a detail account on the energy flow in ecosystem.

17. (a) Discuss about the factors affecting the population growth.

Or

- (b) Discuss about characteristics of population ecology and population fluctuation.

18. (a) Write in detail about the biodegradation and bioremediation measures of heavy metal pollution.

Or

- (b) Discuss about environmental health and the significance of biomarkers and bioindicators.

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19. (a) Write about the cause, effects and the control measures of air pollution.

Or

- (b) Write an account on thermal pollution and nuclear hazards.

20. (a) Give a detail account on different types of organizations involved in the conservation of biodiversity.

Or

- (b) Discuss about the reasons for the loss of biodiversity.

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