

(7 pages)

Reg. No. : .....

Code No. : 10376 E Sub. Code : ESZO 42

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

Fourth Semester

Zoology

Skill Enhancement Course – WILDLIFE  
CONSERVATION AND MANAGEMENT

(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. What does ESA stand for?

- (a) Ecological Safety Area
- (b) Environmental Sensitive Area
- (c) Ecologically Sensitive Area
- (d) Ecosystem Support Area

2. Which of the following is a fine filter approach?

- (a) Threatened species conservation
- (b) Habitat conservation
- (c) Ecosystem conservation
- (d) Genetic diversity

3. Which type of stochasticity refers to random changes in birth and death rates?

- (a) Environmental (b) Genetic
- (c) Demographic (d) Spatial

4. What does PVA stand for in conservation biology?

- (a) Population Viability Analysis
- (b) Population Variation Assessment
- (c) Predictive Viability Algorithm
- (d) Population Value Analysis

5. Which international agreement focuses on the conservation of wetlands?

- (a) CITES
- (b) Ramsar Convention
- (c) CBD
- (d) IUCN

6. In which year was the Wildlife Protection Act passed in India?  
(a) 1972 (b) 1988  
(c) 2017 (d) 1992
7. Which type of forest is mainly refers to wildlife adaptation?  
(a) Temperate Forest (b) Coniferous Forest  
(c) Tropical Forest (d) Mangrove Forest
8. Which factor is a major reason for wildlife depletion in India?  
(a) Industrialization  
(b) Wildlife Conservation  
(c) Plantation of trees  
(d) Afforestation
9. Which of the following is an endangered bird species in India?  
(a) Peacock  
(b) Great Indian Bustard  
(c) Crow  
(d) Pigeon

10. Which legislation in India primarily governs wildlife protection?  
(a) Environment Protection Act, 1986  
(b) Wildlife Protection Act, 1972  
(c) Forest Conservation Act, 1980  
(d) Biodiversity Act, 2002

PART B — (5 × 5 = 25 marks)

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

Each answer should not exceed 250 words.

11. (a) State the concept of Ecologically Sensitive Areas (ESA) and their importance.  
Or  
(b) Differentiate between coarse filter and fine filter approaches in biodiversity conservation.
12. (a) Explain the concept of population viability analysis (PVA) and its importance in conservation biology.  
Or  
(b) Describe the different types of stochastic perturbations that affect population dynamics.

13. (a) Write a short note on CITES and its role in wildlife conservation.

Or

(b) Explain the objectives of the National Wildlife Action Plan (2017-2031).

14. (a) Write a short note on wildlife sanctuaries in India.

Or

(b) Write a short note on the different types of protected areas in India.

15. (a) Describe the major threats to the survival of the Slender Loris.

Or

(b) Explain the significance of the Great Indian Bustard in Indian biodiversity conservation.

PART C — (5 × 8 = 40 marks)

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

Each answer should not exceed 600 words.

16. (a) Describe the various regional and national approaches to biodiversity conservation in India.

Or

(b) Explain the different perspectives and expressions of Biodiversity conservation.

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17. (a) Discuss in detail the role of stochasticity (environmental, demographic, spatial, and genetic) in population conservation.

Or

(b) How do demographic and environmental factors influence the survival of small populations?

18. (a) Explain the various international agreements for the conservation of natural resources.

Or

(b) Discuss the importance of the National Forest Policy, 1988, in forest conservation.

19. (a) Write an essay on reason for wildlife depletion in India.

Or

(b) Explain in detail the concept of protected areas with examples of National Parks and Biosphere Reserves in India.

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20. (a) Explain in detail the habitat utilization and conservation status of the Olive Ridley Turtle, Musk deer and Great Indian Bustard.

Or

- (b) Discuss the impact of illegal wildlife trade on biodiversity and the measures taken to prevent it.
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