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3 (Sem-6/CBCS) ZOO HE 4

2025

ZOOLOGY

(Honours Elective)

Paper : ZOO-HE-6046

(Wildlife Conservation and Management)

Full Marks : 60

Time : Three hours

The figures in the margin indicate full marks for the questions.

1. Answer the following: 1×7=7
- (a) What is conservation ethics?
 - (b) What is ecological density?
 - (c) What is carrying capacity?
 - (d) What do you mean by climax community?
 - (e) What is the full form of GIS?
 - (f) What is Topography?
 - (g) Give *two* ecological value of wildlife.

2. Answer briefly : (*Differentiate between*)
2×4=8

- (i) Crude density and ecological density
- (ii) National Park and Wildlife Sanctuary
- (iii) In-situ and Ex-situ conservation
- (iv) Climax community and pioneer community.

3. Write short notes on : (*any three*) 5×3=15

- (a) Ecotourism
- (b) Project Tiger
- (c) Community reserve
- (d) Wildlife corridor
- (e) Biological parameters of wildlife.

4. Answer elaborately : 10×3=30

(a) What is in-situ conservation?

Elaborate the approaches to in-situ conservation of wildlife in India and comment upon the advantages of the approach.

1+8+1=10

Or

What is remote sensing? Explain how remote sensing helps in wildlife studies.

2+8=10

- (b) What is Red Data Book? What are the various Red list categories? Outline the IUCN criteria for recognition of threatened (CR, EN and VU) species. 1+5+4=10

Or

What is wildlife conservation? Write down the causes of wildlife depletion and its conservation measures.

1+6+3=10

- (c) Why census is necessary? Differentiate between total count and sample count. What is quadrature sampling?

2+5+3=10

Or

What are the basic criteria for the measurement of pugs of tiger? Differentiate between hind and front pugmark. How could you distinguish between male and female tiger pugmark.

2+4+4=10