

U.G. 5th Semester Examination - 2024**ZOOLOGY****[HONOURS]****Discipline Specific Elective (DSE)****Course Code : ZOOL-H-DSE-T-03****(Wildlife Conservation & Management)****Full Marks : 40****Time : 2½ Hours***The figures in the right-hand margin indicate marks.**Candidates are required to give their answers in their own words as far as practicable.*

1. Answer any five questions: 2×5=10
 - a) Write the main causes of biodiversity depletion.
 - b) What is cohort? Define Age Pyramid.
 - c) What is GIS? Give an example of a GIS application.
 - d) How many Tiger Reserves are there in West Bengal? Write the names of the tiger reserves.
 - e) What are the physical parameters of a wildlife habitat? How many types of Protected Areas are there in India?
 - f) What are the main objectives of a National Park?

[Turn Over]

g) What do you mean by vermin? Give one example.

h) Write the advantages of *ex-situ* conservation.

2. Answer any two questions of the following:

$5 \times 2 = 10$

a) Write a short note on different types of covers in a habitat.

b) How to differentiate between scat, dung and pellet? What do you mean by browsing and grazing?

$3 + 2$

c) Define wildlife conservation. What are the causes of wildlife depletion?

d) Write the components of remote sensing? What is optical remote sensing? What do you mean by vector and raster data?

$2 + 1 + 2$

3. Answer any two questions of the following:

$10 \times 2 = 20$

a) Differentiate between a national park and wildlife sanctuary. Which state of India has the highest number of national parks? Define population density. How it is measured? What are the factors that influence population size in a habitat? What is survivorship curve?

$2 + 1 + 1 + 1 + 2 + 3$

b) What is succession? Why succession should be set back in a wildlife habitat? What are the practices for setting back succession? If a habitat has a female deer population of 66% then what is the conventional sex ratio of that habitat? How *deer density* is calculated from pellet count? – explain with example.

$1 + 1 + 3 + 2 + 3$

c) Write a short note on the National Tiger Conservation Authority. How will you differentiate between a leopard and a tiger pug mark? Discuss about different types of damage done by the wildlife to humans. Discuss about the preventive measures of human-wildlife conflict in Indian context with examples.

$3 + 2 + 2 + 3$

d) Define ecotourism. Mention the general objectives of wildlife ecotourism. What are the environmental and infrastructural requirements for developing an ecotourism zone? How carrying capacity of an ecotourism zone is estimated? – explain.

$1 + 2 + 2 + 5$