

U.G. 5th Semester Examination - 2020

ZOOLOGY

[HONOURS]

Discipline Specific Elective (DSE)

Course Code : ZOOL-H-DSE-T-03

(Wildlife Conservation and 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) What do you mean by a wildlife habitat? What are the major components of a wildlife habitat?
 - b) What are the main reasons for biodiversity depletion?
 - c) What is a survivorship curve?
 - d) What do you mean by active and passive remote sensing?
 - e) How do you distinguish between a felid and a canid pugmark?
 - f) Write some of the indirect methods used for animal population estimation by the wildlife managers.

[Turn Over]

- g) What do you mean by Vermin? Give an example of a pest bird in India.
 - h) Differentiate between National parks and Wildlife sanctuaries.
2. Answer any **two** of the following: 5×2=10
 - a) Write a short note on the Principal Biomes of the world. 5
 - b) What do you mean by 'Cover' in a wildlife habitat? Classify 'cover' into different broad categories. 1+4=5
 - c) Discuss the advantages and disadvantages of Remote sensing. Write two applications of GIS in wildlife management. 3+2=5
 - d) What is ecological succession? What do you mean by climax community? Discuss about autogenic and allogenic succession. 1+1+(1.5+1.5)=5
 3. Answer any **two** of the following. 10×2=20
 - a) How the identification of male and female tiger is done from their pugmarks? What is Pug Impression Pad (PIP)? How pugmark plaster cast is done in the field? How animal density is estimated from faecal counting survey? 3+2+3+2=10

- b) What is a Tiger Reserve? Write down the advantages of In-Situ conservation. Discuss the strategies of Ex-Situ conservation. What are the methods currently used to control the damage done by animals in different places of India?

$$2+2+4+2=10$$

- c) What are the objectives of Project Tiger? What is the role of NTCA in tiger conservation in India? Discuss the main challenges in Project Tiger. Tiger - National animal of India, can be treated as a Pest in certain circumstances - discuss.

$$2+3+2+3=10$$

- d) Define ecotourism. What are the objectives of ecotourism? What are the guidelines for the visitors in a wildlife eco-tourism place? How carrying capacity of a Tiger Reserve is estimated? -Discuss with suitable example.

$$1+2+2+5=10$$
