

U.G. 5th Semester Examination - 2021

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 : $2 \times 5 = 10$
- Why biodiversity conservation is necessary?
 - What do you mean by *Crude* and *Specific population density*?
 - What is GIS? Give an example of a GIS application.
 - When Project Tiger was launched? How many *Tiger Reserves* are there in India?
 - What are the main objectives of a wildlife sanctuary?
 - What do you mean by ecological succession?

- What do you mean by a pest and nuisance?
 - Write two disadvantages of Ex-Situ conservation.
2. Answer any **two** questions: $5 \times 2 = 10$
- How the differentiation between front and rear pugmark of a tiger is done? Define *Step* and *Stride*. $2+3=5$
 - Give an account on different physical parameters of a wildlife habitat. 5
 - Write a short note on *types of Remote Sensing system*. 5
 - Write a short note on Mega-diversity Countries. What do mean by biodiversity hotspots? Name the biodiversity hotspots of India. $2+2+1=5$
3. Answer any **two** questions: $10 \times 2 = 20$
- Define natality in a population. What is *Age Pyramid*? Explain with suitable diagrams. What do you mean by *Life table*? How deer density is calculated from pellet count-explain with example? $2+(1+3)+1+3=10$
 - What do you mean by ecotourism? What are the environmental and infrastructural requirements for developing an ecotourism zone? Write a short note on the functions of a modern zoo. How

carrying capacity of an ecotourism zone is estimated?– Explain. $1+2+2+5=10$

- c) Define primary and secondary succession. What is hydrosere? Explain the general process of succession. Discuss about *Monoclimax* and *Polyclimax* theories. $(1+1)+1+3+(2+2)=10$
- d) Discuss about different types of damage done by the wildlife to humans. Give examples of some preventive measures of human-wildlife conflict in Indian context. Write a short note on National Park. How to differentiate leopard and tiger on the basis of their pug marks? Write a short note on the National Tiger Conservation Authority. $2+2+2+2+2=10$
