

U.G. 5th Semester Examination - 2021**ZOOLOGY****Course Code : BZOODSHC3 [DSE 3]****Course Title : Wildlife Conservation and Management**

Full Marks : 30

Time : 2 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 **ten** from the following: $1 \times 10 = 10$
- What is the difference between scat and poops?
 - Name one bird sanctuary in West Bengal.
 - How many Tiger Reserves are there in India?
 - Name the only Urodel amphibian found in the Indian subcontinent.
 - Which wetland is recently declared as Ramsar site in West Bengal?
 - What is Community Reserve?
 - What is the impact of diseases in highly localized endangered species?

- What are endemic species? Give one example.
 - What are the differences between autogenic and allogenic succession?
 - Differentiate between the pugmarks of forelimb and hindlimb of tiger.
 - Name two gibbons found in the Indian subcontinent.
 - Which Tiger Reserve in India has got the highest concentration of tigers in 2018 Tiger Census?
 - What is LIDAR?
 - Define ecological natality?
 - What is hydrosere?
2. Answer any **five** from the following: $2 \times 5 = 10$
- What are the differences between grazers and browsers?
 - What are the advantages of Joint Forest Management in Indian perspective?
 - Briefly describe the concept of remote sensing in wildlife.
 - What are the types of corridor? What is the ecological significance of corridors?

- e) What is extinction vortex? What is umbrella species?
- f) What is ecesis? What do you mean by the term coaction?
- g) Write briefly about cryopreservation.
- h) Differentiate between 'in-situ' and 'ex-situ' conservation.

3. Answer any **two** questions from the following:

$5 \times 2 = 10$

- a) What do you mean by setting back succession? What are the criteria for Biodiversity Hotspots? What are surrogate species? $1+3+1=5$
- b) How carrying capacity is deduced from S-shaped growth curve? Frame two mitigative processes for resolving human-elephant conflict. How ecosystem health of a forest can be depicted by indicator species? $2+2+1=5$
- c) How Captive Breeding Centres are different from Zoos? Briefly describe Parker's two-step method for estimating ground cover. Using which instrument, canopy cover can be estimated? $2+2+1=5$
