



**WEST BENGAL STATE UNIVERSITY**

B.Sc. Honours 6th Semester Examination, 2021

**ZOOADSE06T-ZOOLOGY (DSE3/4)**

Time Allotted: 2 Hours

Full Marks: 40

*The figures in the margin indicate full marks.  
Candidates should answer in their own words and adhere to the word limit as practicable.  
All symbols are of usual significance.*

1. Answer any **eight** questions from the following: 2×8 = 16
- (a) What is meant by core and buffer area in a wildlife sanctuary?
  - (b) What do you mean by prey base study for tiger?
  - (c) Name one Ramsar site and a biosphere reserve from West Bengal.
  - (d) What do you mean by a geostationary satellite?
  - (e) What are trap cropping and buffer cropping? Give examples.
  - (f) Give the full forms of CITES and IUCN.
  - (g) Where do you find dry deciduous and mixed moist deciduous forests in West Bengal?
  - (h) State the status and distribution of Bengal Florican.
  - (i) Differentiate between nodes and corridors. Indicate an elephant corridor in the northern West Bengal.
  - (j) Mention two *in situ* conservation strategies for the one-horned Rhinoceros.
  - (k) What do you mean by community reserve? Give example.
  - (l) Give the scientific names of one critical and one vulnerable mammals from India.
2. Answer any **three** questions from the following: 3×3 = 9
- (a) Where do you find alluvial grasslands in West Bengal. Mention the importance of grassland ecosystem. 1+2
  - (b) What are sentinel species? Why are they important? 1+2
  - (c) Comment on the application of satellite imaging in vegetation mapping. 3
  - (d) Enumerate the roles of zoo gardens as an *ex situ* measure of wildlife conservation. 3
  - (e) Write a note on the structure of a biosphere reserve. 3

3. Answer any **three** questions from the following: 5×3 = 15
- (a) Describe the various reasons for depletion of wildlife resource in India. 5
  - (b) Define human-animal conflict. State the reasons for increasing conflict between human and elephant in West Bengal. Suggest some measures to mitigate such problem. 1+2+2
  - (c) Distinguish between wildlife sanctuary and national park. Name the biosphere reserves of India with their respective locations. 2+3
  - (d) Discuss about the salient features, merits and demerits of WPA, 1972. 3+1+1
  - (e) Add a note on joint forest management (JFM). 5

**N.B. :** *Students have to complete submission of their Answer Scripts through E-mail / Whatsapp to their own respective colleges on the same day / date of examination within 1 hour after end of exam. University / College authorities will not be held responsible for wrong submission (at in proper address). Students are strongly advised not to submit multiple copies of the same answer script.*

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