



WEST BENGAL STATE UNIVERSITY
B.Sc. Honours 6th Semester Examination, 2022

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) Where would you find coniferous forest and mangrove forest in West Bengal?
 - (b) Write the full forms of GPS and GIS.
 - (c) Name two wildlife sanctuaries of West Bengal.
 - (d) Give the full forms of CITES and IUCN.
 - (e) What is meant by 'habitat improvement zone' for a biosphere reserve?
 - (f) Why is the mangroves called 'osmotic desert'? Name two major plant species of the mangroves of West Bengal.
 - (g) Why the population of white-rumped vulture has been reduced?
 - (h) What is Cryopreservation?
 - (i) What is Red Data Book? Mention its importance.
 - (j) Give scientific names of two endangered mammals from West Bengal.
 - (k) What is Flagship species? Give an example.
 - (l) Name two National Parks in West Bengal where one-horned Rhinoceros are found.
2. Answer any **three** questions from the following: 3×3 = 9
- (a) Write a note on human-leopard conflict in the Northern West Bengal.
 - (b) Discuss the application of captive breeding in Species Conservation.
 - (c) Differentiate between *In Situ* and *Ex Situ* Conservation.
 - (d) Write briefly on the functions of National Board of Wildlife in accordance to WPA (1972).
 - (e) Differentiate between Schedule I and Schedule II animals under WPA (1972) with suitable examples.

3. Answer any *three* questions from the following: 5×3 = 15
- (a) Enumerate the role of NTCA to conserve tigers in India. How is Buxa rejuvenated as a tiger habitat? 3+2
- (b) What is edge effect? How does it affect the structure of a wilderness reserve? Mention two measures adopted to mitigate human-elephant conflict in the western part of the West Bengal. 1+2+2
- (c) What is geostationary satellite? Discuss, how forest cover changes may be monitored by Remote Sensing and GIS. 2+3
- (d) Justify, how anthropogenic activities lead to depletion of wildlife globally.
- (e) What are the advantages and disadvantages of wildlife tourism?

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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