



WEST BENGAL STATE UNIVERSITY

B.Sc. Honours 6th Semester Examination, 2023

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) State two reasons why wildlife should be conserved.
 - (b) What do you mean by Protected Area?
 - (c) Define Umbrella species. Give example.
 - (d) Mention the scientific names of State Animal and State Bird of West Bengal.
 - (e) State the basic differences between seed bank and germplasm bank.
 - (f) Where would you find Tropical Evergreen Forest and Thorn forest in India?
 - (g) Mention two disadvantages of eco-tourism.
 - (h) Name two elephant reserves of West Bengal.
 - (i) What are vermins as per WPA, 1972?
 - (j) Write the full forms of IUCN and CITES.
 - (k) Which is the natural habitat of Asiatic lion in India? Which North Eastern State of India has a floating National Park?
 - (l) Name two wilderness areas in India where Lion-tailed macaque and Black buck are found.
2. Answer any **three** questions from the following: 3×3 = 9
- (a) What is a Biosphere Reserve? Write a note on the structure of a Biosphere Reserve. 1+2
 - (b) Define critically endangered, endangered and vulnerable species as per IUCN and give Indian example of each category. 3
 - (c) What is meant by wildlife corridor? Enumerate the role of wildlife corridor in conservation. 1+2
 - (d) Discuss the preventive measures of forest fire. 3
 - (e) State the application of Remote Sensing in forest cover estimation. 3

3. Answer any *three* questions from the following: 5×3 = 15
- (a) Classify the major forest types of West Bengal. Discuss the importance of Sundarbans in biodiversity conservation. 3+2
- (b) State the possible reasons of forest fire. How does it rejuvenate an ecosystem? 3+2
- (c) Discuss the reasons for rise in man-tiger conflict in India. Suggest some measures to mitigate the problem. 3+2
- (d) Differentiate between National Parks and Wildlife Sanctuaries with examples from West Bengal. 5
- (e) Mention the different methods used to estimate population density of wild flora and fauna. 5