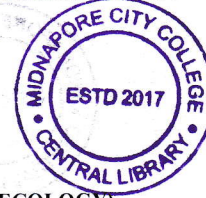


PG (CBCS)
M.SC. Semester- III Examination, 2023
ZOOLOGY
PAPER: ZOO 303B



(BIODIVERSITY AND CONSERVATION ECOLOGY AND AQUATIC ECOLOGY)
Full Marks: 40 **Time: 2 Hours**

The figures in the right-hand margin indicate full marks.
 Candidates are required to give their answers in their own words as far as practicable.

Write the answer for each unit in separate sheet

UNIT: ZOO 303B.1

BIODIVERSITY AND CONSERVATION ECOLOGY

GROUP-A

1. Answer any **TWO** of the following questions: 2×2=4
- a) State the criteria of a hotspot.
 - b) State the principles and goals of CBD.
 - c) What is red Data Book?
 - d) Define Biosphere reserve.

GROUP-B

2. Answer any **TWO** of the following questions: 2×4=8
- a) Write a note on national Park.
 - b) Enumerate the UNESCO Heritage Sites in India.
 - c) Discuss the levels of biodiversity.
 - d) Write a note on man-elephant conflict.

GROUP-C

3. Answer any **ONE** of the following questions: 1×8=8
- a) What is ex situ conservation? Give an account of tiger conservation in West Bengal? 2+6
 - b) What is social forestry? Discuss Arabari Concept in execution of forest management? 2+6

P.T.O



UNIT ZOO 302.2
AQUATIC ECOLOGY

GROUP-A

4. Answer any **TWO** of the following questions: 2×2=4
- a) What do you mean by Ramsar Site?
 - b) What is ox-bow lake?
 - c) What is bioremediation?
 - d) What is neritic zone in ocean?

GROUP-B

5. Answer any **TWO** of the following questions: 2×4=8
- a) Write a note on distribution of salinity in sea.
 - b) Discuss about River Action Plan in waste water management.
 - c) Discuss the unique features of mangrove ecosystems, focusing on the Sundarbans in India.
 - d) Comment on the circulation of nutrients in the coastal zone.

GROUP-C

6. Answer any **ONE** of the following questions: 1×8=8
- a) Elaborate the major anthropogenic threats to coral ecosystems. Why wetlands are called "the kidney of nature"? 6+2
 - b) Write notes on any two: 4+4
 - i. Factors contributing to the degradation of water quality.
 - ii. Biota of estuarine ecosystem
 - iii. Oyster Reef
 - iv. Zooxanthellae
