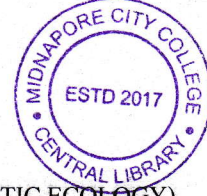


**PG CBCS**  
**M.Sc. Semester-III Examination, 2022**  
**ZOOLOGY**  
 PAPER: ZOO 303B



(BIODIVERSITY & CONSERVATION ECOLOGY AND AQUATIC ECOLOGY)

**Full Marks: 40**

**Time: 2 Hours**

Write the answer for each unit in separate sheet

**UNIT: ZOO 303B.1**

**BIODIVERSITY & CONSERVATION ECOLOGY**

**GROUP-A**

**1. Answer any TWO from the following questions: 2×2=4**

- a) State the principles and goals of CBD.
- b) What do mean by Red Data Book?
- c) Cite examples of any two World Heritage Sites of India.
- d) Write the full form of GIS and GPS.

**GROUP-B**

**2. Answer any TWO from the following questions: 2×4=8**

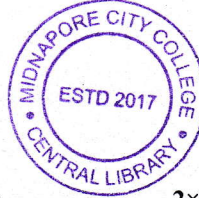
- a) What is Biosphere Reserve? Mention the criteria of a Biosphere Reserve.
- b) What is Arabari concept? State its significance. 2+2
- c) Write a note on the conservation strategy of vultures in India.
- d) Discuss the role of wildlife DNA forensics in identification of endangered species.

**GROUP-C**

**3. Answer any ONE from the following questions: 1×8=8**

- a) What do you mean by Biodiversity Hotspot? Write down the names of Biodiversity Hotspots of India. State the significance of identification of Biodiversity Hotspots around the globe. Point out the values of Biodiversity. 1+2+2+3
- b) (i) Highlight the present status of Tiger Conservation in India.  
 (ii) What is the significance of Wildlife census? Name few techniques used for conducting census. 4+2+2

**UNIT: ZOO 303B.2**  
**AQUATIC ECOLOGY**



**GROUP-A**

**4. Answer any TWO from the following questions: 2×2=4**

- a) What is Ramsar site? Mention one example from India.
- b) Define periphyton with suitable example.
- c) What do you mean by true mangrove? Give example.
- d) What is the role of Zooxanthellae in corals?

**GROUP-B**

**5. Answer any TWO from the following questions: 2×4=8**

- a) Comment on reuse and recycling of water in waste water management.
- b) Discuss in brief about biogenic habitat.
- c) Discuss about the adaptive modification of Lotic animals.
- d) Distinguish between swamp, fen, bog and marsh.

**GROUP-C**

**6. Answer any ONE from the following questions: 1×8=8**

- a) Elaborate the importance of wetland ecosystems. Describe the distribution of salinity of sea. 5+3
- b) Write notes on *any two* 4+4
  - i) Ecological role of zooplankton community
  - ii) Trophic structure of coral ecosystem
  - iii) Thermocline
  - iv) Threats to estuarine ecosystem

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