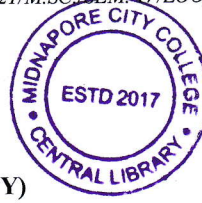


PG (CBCS)
M.Sc. Semester- IV Examination, 2023
ZOOLOGY
PAPER: ZOO 403B
(SYSTEMS ECOLOGY & HUMAN ECOLOGY)



Full Marks: 40

Time: 2 Hours

Write the answer for each unit in separate sheet

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.

ZOO 403B.1
SYSTEMS ECOLOGY
F.M. - 20

GROUP-A

1. Answer any **TWO** of the following questions: 2×2=4
- Mention the process of decomposition of Leaf litter.
 - What are Major and Minor communities?
 - State the various levels of species diversity.
 - What are the different levels of habitat fragmentation?

GROUP-B

2. Answer any **TWO** from the following questions: 2×4=8
- Write a note on Ecological Economics.
 - What is ecotourism? State the demerits of ecotourism.
 - Explain the phenomenon of colonization and extinction in metapopulation.
 - Discuss the philosophy of Eco restoration.

GROUP-C

3. Answer any **ONE** of the following questions: 1×8=8
- Enumerate the different kinds of ecosystem services for human well-being.
 - Name the lakes formed through gradual natural processes. Classify tropical forests of India broadly.

(P.T.O)



ZOO 403B.1
HUMAN ECOLOGY
F.M. - 20

GROUP-A

4. Answer any **TWO** from the following questions: 2×2=4
- a) Name some common indoor pollutants and write their effects.
 - b) What is Red Tide?
 - c) What is Green House Effect?
 - d) What is thermal invention?

GROUP-B

5. Answer any **TWO** from the following questions: 2×4=8
- a) What is acid rain? Describe its effect on human assets.
 - b) What are the major types of soil erosion?
 - c) Discuss the criteria of urbanization.
 - d) Briefly discuss the effects of bioinvasion.

GROUP-C

6. Answer any **ONE** from the following questions: 1×8=8
- a) Elaborate different categories of biomedical wastes and their disposal.
Describe the wastes generated from agricultural production. 5+3
 - b) Describe the different stages of EIA. What is Invasive Alien Species?
What is Ecomark? 5+2+1
