

PG (CBCS)
M.SC. Semester- IV Examination, 2026
ZOOLOGY
PAPER: ZOO 405B
(SYSTEMS ECOLOGY)



Full Marks: 20

Time: 1 Hour

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.

GROUP-A

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

1. What are alpha, beta & gamma diversity?
2. State the process of ecological succession.
3. State the philosophy of ecological restoration.
4. Compare tangible and intangible ecosystem services.

GROUP-B

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

5. Classify Forest on the basis of crown cover density.
6. Write note on i) Ecological time hypothesis and ii) Productivity hypothesis
7. Discuss the levels of species diversity.
8. Describe major paradigms of Metacommunity.

GROUP-C

Answer any **ONE** of the following questions: 1×8=8

9. a. State the merits and demerits of ecotourism. 4+4
b. Ecological economics with conventional economics.
10. a. Give a comparative account of restoration ecology and conservation ecology. 4+4
b. Elaborate mixing patterns in inland lakes.

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