

M. Sc. 2nd Semester Examination, 2025

BOTANY

(Ecology)

PAPER – BOT-205

Full Marks : 25

Time : 1 hour

Answer all questions

The figures in the right hand margin indicate marks

*Candidates are required to give their answers in
their own words as far as practicable*

GROUP – A

Answer any two questions from the following :

2 × 2

- 1. What is Lindeman 10% law ?**
- 2. What is niche differentiation ?**

(Turn Over)

(2)

3. Write the differences between primary and secondary succession.
4. Differentiate between mutualism and commensalism.

GROUP - B

Answer any two questions from the following :

4 × 2

5. Write the process of succession according to Clement's theory.
6. Describe the double channel energy flow model with diagram.
7. Mention the current concept of Deep and Shallow ecology.
8. Discuss the structure and function of forest ecosystem.

(3)

GROUP—C

Answer any one question from the following :

8 × 1

9. Discuss the logistic model of population growth. What is age pyramid ? Describe the different types of age pyramid in a population.

3 + 2 + 3

10. Elaborate different morphological, anatomical and physiological adaptive features found in xerophytes. Name two true mangrove species from Indian Sundarbans.

6 + 2

[Internal Assessment — 05 Marks]

ROHIP

ving :
8 x
ation
be the
ation.
+ 2 +
mical

question
gistic m
age by
age by
motor

10