Fourth Semester B.Sc., Degree Examinations

May / June 2026

(SEP Scheme)

BOTANY

Sub. Code SSD 0260 : Paper IV : Plant Ecology, Biodiversity and Conservation

Time: 3 hrs.] *[Max.Marks:80*

Instruction to the Candidates :

1. *The student should legibly write Section number along with question numbers within the margin only.*
2. *The answers without Section number and question numbers will not be valued.*
3. *Do not write anything (except register number) on the question paper.*
4. *All Sections are Compulsory.*
5. *Draw neat and labelled diagram wherever necessary.*

SECTION – A

I. Answer the following questions. **(10X2=20)**

1.

a) Climatic factors

b) Food web

c) Climax vegetation-

d) Velamen tissue

e) Endemism

f) Afforestation

g) Biomagnification

h) Mortality

i) Immigration

j) Xenobiotics.

SECTION – B

II. Medium Answer questions.
Answer any SIX of the following. **(6X5=30)**

2. Explain the edaphic factors.

3. What are ecological pyramids? Explain the inverted pyramid of number.

4. Explain the morphological adaptation of halophytes.

Contd...2

5. Briefly explain the quadrat method of vegetation study.

6. Write about biodiversity hotspots of India.

7. What is social forestry? Explain its importances.

8. What is food chain? Explain grazing food chain.

9. Explain the types of toxic agents on biological system.



SECTION – C

III. Long answer questions.
Answer any THREE of the following. **(3X10=30)**

10. What is biogeochemical cycle? With schematic representation explain the nitrogen cycle.

11. Define ecological succession? Explain xerosere.

12. Describe the morphological and anatomical adaptations of hydrophytes.

13. Define biodiversity? Write about in-situ method of conservation.

14. What are pollutants? Explain causes, effects and controlling measures of air pollution.

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