

U.G. 1st Semester Examination - 2025

BOTANY**[MAJOR]****Course Code : BOT-MJ-CC-T-01****[NEP-2020]**

Full Marks : 40

Time : $2\frac{1}{2}$ Hours*The figures in the right-hand margin indicate marks.**Candidates are required to give their answers in their own words as far as practicable.*1. Answer any **five** questions : 2×5=10

- a) Name any two reserve materials found in algae.
- b) What is meant by alternation of generation?
- c) Name two angiospermic characters of *Gnetum*.
- d) What is archegoniate?
- e) What is "sulphur shower"?
- f) Name one RNA virus. Differentiate between virusoid and viroid.
- g) Name the largest herbarium of India and its acronym.
- h) What is mycorrhizal association?

[Turn over]

2. Answer any two questions : $5 \times 2 = 10$

- a) State the general characteristics of cycadophyta.
- b) Discuss the cell wall of Gram-positive bacteria.
- c) What is meant by 'Botanical Garden'. Explain the role of botanical garden in biodiversity conservation. $1+4$
- d) Discuss briefly the salient features of Lycophyta.

3. Answer any two questions : $10 \times 2 = 20$

- a) Give a general account of Bacillariophyceae with special reference to Auxospore formation. $5+5$
 - b) Mention the general characteristics of Zygomycotina and Deutoromycotina with suitable examples. What is zygospore? What is meant by dolipore septum? $6+2+2$
 - c) Write the ecological and economical significance of lichens. $5+5$
 - d) Describe the transition to land habit of Archegoniate. Mention general characteristics of Anthocerotopsida. $6+4$
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