

U.G. 1st Semester Examination - 2025

BOTANY

[MAJOR]

Course Code : BOT-MJ-CC-T-01

[NEP-2020]

Full Marks : 40

Time : 2½ 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 : 5×2=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 Lycopphyta.

3. Answer any **two** questions : 10×2=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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