

U.G. 1st Semester Examination - 2023**BOTANY****[MAJOR]****Course Code : BOT-M-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) What are viroids and virion?
 - b) What is endospore? What does it function?
 - c) What is meant by Gaidukov phenomenon?
 - d) What is meant by fungi imperfecti?
 - e) Give one example of each of foliose and fruticose lichen.
 - f) What is Gemma cup? What is its significance?
 - g) Mention two economic importance of gymnosperm.
 - h) What is botanical garden?

[Turn over]

2. Answer in brief (any two) : $5 \times 2 = 10$

- a) Write down the economic importance of algae. 5
- b) What are ectomycorrhiza and endomycorrhiza? Write down four general characteristics of lichen. 3+2
- c) State the salient feature of Anthocerotopsida. 5
- d) Mention the role of herbarium in plant taxonomy. 5

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

- a) Mention the role of water in life process. How do the land plants originate from the aquatic life? 5+5
- b) What is prion? Differentiate between Gram +ve and Gram -ve Bacteria on the basis of its cell wall composition. What is meant by diatomaceous earth? Write down salient features of Phaeophyceae algae. 1+4+2+3
- c) Write a short note on nutrition in fungi. State the adaptive features of Bryophytes for land habit. What is peristome teeth? 3+5+2
- d) State the salient features of cycadophyta and Gnetophyta. What is the difference between radiospermic and platyspermic ovules? 8+2