

2022

BOTANY — HONOURS

Paper : CC-2

Full Marks : 50

The figures in the margin indicate full marks.

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

2×5

1. Answer **any five** questions of the following :

- (a) What is mitosporic fungus? Give an example.
- (b) What is sclerotium?
- (c) What is disease syndrome?
- (d) Define systemic fungicide with example.
- (e) Name two chemical inducer of SAR.
- (f) What are Endemic and Pandemic disease?
- (g) What is Apothecium?
- (h) Mention two economic importance of lichen.

5×2

2. Answer **any two** questions of the following :

- (a) Write a note on ecological importance of lichen.
- (b) Comment on the role of pathotoxin in causing plant disease.
- (c) Describe the mode of liberation of spores in *Cyathus*.

3. Answer **any three** questions of the following :

- (a) Describe the life cycle of *Synchytrium endobioticum*, with suitable diagram. Why is it called endobiotic and holocarpic? 8+2
- (b) (i) Discuss the importance of disease triangle in plant disease development.
(ii) Elaborate the role of phytoalexin in plant defence mechanism. 5+5
- (c) (i) Write different steps of parasexual cycle. State the importance of parasexual cycle.
(ii) How does mycorrhiza help in agriculture? (3+2)+5
- (d) (i) Name the causal organism of Stem rot of Jute.
(ii) Describe the symptoms and control measures of Late Blight of Potato.
(iii) State the environmental factors which influence the severity of the disease. 1+(3+4)+2
- (e) (i) Describe the development of ascus in *Ascobolus* with suitable illustration.
(ii) Write down the general characteristics of Myxomycota and Deuteromycotina. 6+(2+2)