

2019

B.Sc. (Hons.)

2nd Semester Examination

BOTANY

Paper—C3T

Full Marks : 40

Time : 2 Hours

*The figures in the margin indicate full marks.
Candidates are required to give their answers
in their own words as far as practicable.*

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

5×2=10

- (a) What is coprophillus fungus ? Cite an example.
- (b) What is dolipore septum ?
- (c) What is meant by heteroecious rust ? Give example.
- (d) What are the differences between uredospores and teleutospore ?
- (e) What are necrotroph and biotroph ?
- (f) What is clamp connection ?

- (g) Distinguish between pathogenesis and pathogenicity.
- (h) Distinguish between blight and canker.

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

4×5=20

- (a) Name the causal organism of white rust of crucifer. Give a schematic outline of its life cycle. 2+3
- (b) Write the symptoms and control measure of tobacco mosaic disease. 2+3
- (c) What is biological control ? Write the role of quarantine in plant disease management. 2+3
- (d) Distinguish between *Aspergillus* and *Penicillium*. Mention the economic importance of *Aspergillus*. 2+3
- (e) Mention the importance of fungi in food industry. 5
- (f) Schematically represent the life cycle of *Synchytrium*. Write any two important differences between Ascomycota and Basidiomycota. 3+2

3. Answer any *one* question of the following :

1×10=10

- (a) Classify fungi according to any modern system with their class characters. What is fruit body ?
4+4+2
- (b) How does parasexual cycle differ from sexual cycle as found in fungi? What is meant by loose smut and covered smunt? Write short note on Lichen.
3+3+4
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