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2 SEM TDC BOTH (CBCS) C 3

2026

(May/June)

BOTANY

(Core)

Paper : C-3

(Mycology and Phytopathology)

Full Marks : 53

Pass Marks : 21

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

1. (a) Choose the correct answer : $1 \times 3 = 3$

(i) The cell wall of fungi consists of
cellulose / chitin / hemicellulose /
None.

(ii) Fungi with no known sexual stage
are placed in ascomycetes /
deuteromycetes / zygomycetes /
None.

(iii) Motile spores are present in
Puccinia / *Synchytrium* / *Rhizopus* /
Penicillium.

(2)

- (b) Fill in the blanks of the following : $1 \times 2 = 2$
- (i) The plant diseases which spread widely but occur periodically are called ____.
- (ii) ____ is a symbiotic association between algae and fungi.
2. Write short notes on any *three* of the following : $4 \times 3 = 12$

- (a) Mode of nutrition in fungi
- (b) Significance of Mycorrhiza
- (c) Economic and ecological importance of lichen
- (d) Fungi as biocontrol agents

3. With suitable diagram, describe the life cycle of *Peziza*. 12

Or

Describe the life history of an edible fungus that you have studied. State its economic importance. $8 + 4 = 12$

4. Write, in detail, about the application of fungi in the food industry. 12

Or

Write explanatory notes on the following : $6 \times 2 = 12$

- (a) Mycotoxins for biological control
- (b) Host-Pathogen relationship

(3)

5. Mention the symptoms, names of the causal organisms and control measures of the following diseases (any *three*) : $(1+1+2) \times 3 = 12$
- (a) Early blight of potato
- (b) Citrus canker
- (c) Tobacco mosaic disease
- (d) Black stem rust of wheat
