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2 SEM TDC BOTH (CBCS) C 3

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(May)

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 of the following : 1×3=3

(i) The obligate parasitic fungi absorb their nourishment from the host cells through the surface / haustoria / appressoria / rhizoids.

(ii) Fungus *Alternaria solani* belongs to class Ascomycetes / Deuteromycetes / Schizomycetes / Oomycetes.

(2)

(iii) Fungi are always parasitic /
saprophytic / autophytic /
heterophytic.

(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) Yeast is an important source of _____.

2. Write short notes on any *three* of the following : $4 \times 3 = 12$

(a) General characteristics of fungi

(b) Application of fungi in food industry

(c) Fungal toxins

(d) Mycorrhiza

(e) Mode of nutrition in fungi

3. Describe the range of thallus structure in fungi. Write briefly about its cell wall composition. $7 + 5 = 12$

Or

Discuss the life history and economic importance of *Saccharomyces* (yeast). $8 + 4 = 12$

4. What is slime mold? Mention the types of plasmodia. Describe the method of reproduction in slime mold. $2+3+7=12$

Or

Describe the general characteristics and range of thallus organization of Lichen. Mention their economic and ecological importance. $4+3+5=12$

5. Write the symptoms, name of the causal organism, disease cycle and control measures of any *two* of the following diseases : $(1+1+2+2)\times 2=12$

- (a) Angular leaf spot of cotton
- (b) Mosaic disease of tobacco
- (c) Citrus canker
- (d) Black stem rust of wheat
