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2 SEM TDC BOTH (CBCS) C 3

2023

(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 and write the correct answer of the following : 1×3=3
- (i) Motile spores are present in Puccinia / Synchronium / Rhizopus / Penicillium.
 - (ii) Clamp formation is seen in Chytridiomycotina / Ascomycotina / Basidiomycotina / Deuteromycotina.
 - (iii) Which of these is a bacterial disease that affects the plants?
Crown gall / Mosaic / Smut / Blisters

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(Turn Over)

- (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) Any organism capable of producing a disease is called _____.

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

- (a) Conidiophore and conidia of Penicillium
- (b) Role of fungi in biotechnology
- (c) Types of fruiting body in slime moulds
- (d) Pathogenesis
- (e) Fungi in pharmaceutical preparations

3. Describe the mode of nutrition in fungi. Give a brief account of the classification of fungi that you have studied. $5 + 7 = 12$

Or

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

4. Write about the symbiotic association in lichen. Mention the economic and ecological importance of lichen. $6 + 3 + 3 = 12$

(3)

Or

Write the role of fungi as biocontrol agents.
Explain the significance of neurospora as
genetic research tool.

7+5=12

5. Mention the symptoms, names of the causal organism, disease cycle and control measures of the diseases (any two) :

(1+1+2+2)×2=12

- (a) Citrus canker
- (b) Tobacco mosaic viruses
- (c) Early blight of potato
- (d) Black stem rust of wheat

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