2 SEM TDC BOTH (CBCS) C 3

2023 and million by

(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 / Synchytrium / 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

(Turn Over)

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(b) Fill in the blanks of the following: 1×2=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: $4\times3=12$
 - (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=19

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

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
