2 SEM TDC BOTH (CBCS) C 3

2022

(June/July)

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

- (a) Choose and write the correct answer of the following: 1×3=3
 - (i) Peziza / Puccinia / Agaricus is a polymorphic fungi.
 - (ii) In case of diseased plants, small spots or streaks of dead tissue appear. The phenomenon is referred as moulting / necrosis / chlorosis / distortion.
 - (iii) Citrus canker is a viral / fungal / bacterial / algal disease.

- Fill in the blanks of the following: (b) $1 \times 2 = 2$
 - (i) The cell wall of fungi is mostly made up of ____ .
 - (ii) Early blight of potato is caused by
- 2. Write short notes on any three of the following: 4×3=12
 - Heterothallism in Rhizopus (a)
 - Role of fungi in agriculture (b)
 - Conidia of Alternaria (c)
 - (d) Fungal toxins
 - (e) Sexuality in fungi
- 3. What are heteroecious fungi? With suitable diagram, describe the life cycle of Puccinia.

1+4+7=12

Or

What allied fungi? Mention are characters of slime moulds. Describe the life-cycle of typical cellular slime mould.

1+4+7=12

Name the algal and fungal components of lichen. Describe the different growth forms of lichen. Draw and describe the internal structure of homomerous and heteromerous 1+5+6=12 lichen.

Or

Write about the role of fungi in food industry. How are fungi used as biofertilizers? Give 6+4+2=12 examples.

Mention the symptoms, names of the causal 5. and control cycle disease organism, measures of the diseases (any two): (1+1+2+2)×2=12 Black stem rust of wheat

- Yellow vein clearing of bhindi (b) Angular leaf spot of cotton (c) White rust of crucifers (d)

(a)
