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3 (Sem-2/CBCS) BOT HC 1

2023

**BOTANY**

(Honours Core)

Paper : BOT-HC-2016

**(Mycology and Phytopathology)**

Full Marks : 60

Time : Three hours

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

1. Answer the following questions :  $1 \times 7 = 7$
- (a) Crozier formation is observed in \_\_\_\_\_.  
(Fill in the blank)
  - (b) What do you mean by systemic fungus?
  - (c) Muriform conidia are present in \_\_\_\_\_.  
(Fill in the blank)
  - (d) What is dikaryotic life cycle ?

Contd.

- (e) *Rhizopus* is commonly known as \_\_\_\_\_.  
(Fill in the blank)
- (f) What is a cleistothecium ?
- (g) What is the causal organism of Black Stem Rust of wheat ?
2. Answer the following in brief:  $2 \times 4 = 8$
- (a) What are the chemical components of the fungal cell wall ?
- (b) Difference between ascospores and basidiospores.
- (c) What is clamp connection ?
- (d) What is basidiocarp ?
3. Write short notes on **any three** of the following questions:  $5 \times 3 = 15$
- (a) Methods of asexual reproduction in fungi
- (b) Role of fungi in industry
- (c) Diagnostic features of basidiomycetes
- (d) Development of Ascus and ascospores in Ascomycetes

- (e) Ectomycorrhizae and Endomycorrhizae
4. Answer **any three** of the following questions:  $10 \times 3 = 30$
- (a) Write an elaborate description of citrus canker disease mentioning its control measures.
- (b) Give an outline of viral diseases of plants. Discuss Tobacco Mosaic Virus (TMV) disease. Mention its control measure.
- (c) Explain mushroom culture and its importance for society.
- (d) Describe different methods of reproduction observed in lichen.
- (e) Discuss briefly different methods of sexual reproduction observed in lower group of fungi.
- (f) Describe degeneration of sex in fungi.
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