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3 (SEM-2/CBCS) BOT HC1

2025

(Honours Core)

Paper: BOT-HC-2016

(Mycology and Phytopathology)

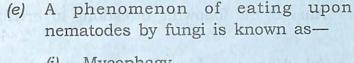
Full Marks: 60

Time: Three hours

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

- Choose the correct answer of the following: $1 \times 7 = 7$
 - Ascomycetes are also known as (a)
 - (i) Mushroom
 - Fairy ring mushroom (ii)
 - (iii) Club fungi
 - (iv) Sac fungi

- (b) In Agaricus the interwoven mycelia twist compactly to form a thick rope, called—
 - (i) Rhizomorphs
 - (ii) Sclerotium
 - (iii) Cleistothecium
 - (iv) Apothecium
- (c) The mycelium is aseptate with irregular distribution of nuclei, called—
 - (i) Coenocytic
 - (ii) Plectenchyma
 - (iii) Prosenchyma
 - (iv) Stroma
- (d) Fungi, which are used to attack and kill insects are called as—
 - (i) Microfungi
 - (ii) Insectisides
 - (iii) Mycoinsectisides
 - (iv) Mycofungisides



- (i) Mycophagy
- (ii) Nematophagy
- (iii) Perennation
- (iv) Pathogenesis
- (f) Fungi producing compatible male and female gametes on the same mycelium is known as—
 - (i) Heterothallic
 - (ii) Paraphyses
 - (iii) Homothallic
 - (iv) Conidia
- (g) Taxomyces andreanae is used for the treatment of—
 - (i) Skin cancer
 - (ii) Lung cancer
 - (iii) Liver cancer
 - (iv) Breast and Ovarian cancer



- Answer the following questions in brief: $2 \times 4 = 8$
 - How does binary fission take place in yeast cell? Describe with suitable diagram.
 - Write the symptoms of 'Black stem rust of wheat' disease.
 - Describe briefly the asexual reproduction of Synchytrium.
 - (d) What do you mean by primary inoculum and secondary inoculum?
- Write short notes on any three of the following: ses Nagaon $5 \times 3 = 15$
 - Importance of plant quarantine
 - Fruit body of Agaricus
 - Parasexuality in fungi (c)
 - General symptoms of plant diseases (d)
 - Mycorrhizal fungi as biocontrol agent
- Answer any three of the following questions: 10×3=30
 - Give a detailed account of classification of algae proposed by Ainsworth (1973).

- What do you mean by blue or green mould? Write a detailed account on one blue or green mould you have 1+9=10studied.
- Why are lichens called the indicators (c) of pollution? Describe different types of reproduction of lichen. 2+8=10
- What is necrosis? Write about different (d) types of necrotic symptoms. Write two methods of plant disease control.

1+5+4=10

- What do you mean by applied mycology? Discuss the role of fungi in Bio-technology. 2+8=10
 - What do you mean by perennation and pathogenesis? What are the different agents for dissemination or dispersal of plant pathogen? Describe how plant 4+2+4=10 pathogens disseminate.