



**WEST BENGAL STATE UNIVERSITY**  
B.Sc. Honours 2nd Semester Examination, 2022

**BOTACOR03T-BOTANY (CC3)**

**MYCOLOGY AND PHYTOPATHOLOGY**

Time Allotted: 2 Hours

Full Marks: 40

*The figures in the margin indicate full marks.  
Candidates should answer in their own words and adhere to the word limit as practicable.  
All symbols are of usual significance.*

1. Answer **all** the following questions in brief: 1×6 = 6
  - (a) Mention the main components of fungal cell wall. 1
  - (b) What do you mean by pathogenecity? 1
  - (c) Name one facultative parasite. 1
  - (d) What are endemic diseases? 1
  - (e) Write the name of one bioluminescence fungus. 1
  - (f) What is Buller phenomenon? 1
  
2. Answer any **eight** questions from the following: 3×8 = 24
  - (a) What is mitosporic fungi? Define any two types of asexual spore forming bodies found in them. 1+2
  - (b) What is VAM? Enumerate the characteristic features of Ectomycorrhiza. 1+2
  - (c) Distinguish between hypertrophic and hyperplastic symptoms. 3
  - (d) What are the salient features of basidiomycota? 3
  - (e) What is biological control? Name two fungi used in biological control. 1+2
  - (f) Mention the different types of fruit bodies found in slime molds. 3
  - (g) What do you mean by heterokaryosis? State its significance. 1+2
  - (h) What are systemic fungicides? Give two examples. 2+1
  - (i) Give a brief account of the growth forms of lichens found in nature. 3
  - (j) Draw and label the conidiophore of the genus *Penicillium*. 2+1
  
3. Answer any **two** questions from the following: 5×2 = 10
  - (a) Schematically represent the different types of life cycles found in the genus *Saccharomyces*. Comment on the life cycle pattern. 3+2

- (b) Name the causal organism of late blight of potato disease. Write down the symptoms of early and late blight of potato disease. 1+2+2
- (c) What are mycotoxins? Classify the mycotoxins broadly with examples. 1+4
- (d) Write down the salient features of Oomycota. Mention any two characters that are unique to this group. 4+1

**N.B. :** *Students have to complete submission of their Answer Scripts through E-mail / Whatsapp to their own respective colleges on the same day / date of examination within 1 hour after end of exam. University / College authorities will not be held responsible for wrong submission (at in proper address). Students are strongly advised not to submit multiple copies of the same answer script.*

—x—