



**WEST BENGAL STATE UNIVERSITY**

B.Sc. Honours 2nd Semester Examination, 2021

**BOTACOR03T-BOTANY (CC3)**

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) Name one aquatic fungus.
  - (b) What is an aethalium?
  - (c) Why is the classification proposed by Hawksworth et al (1995) considered as a phylogenetic system of classification?
  - (d) What do you mean by coprophilous fungi?
  - (e) Define Etiology.
  - (f) What is pandemic disease?
  
2. Answer any **eight** questions from the following: 3×8 = 24
  - (a) What is Parasexual Cycle? Mention its significance in the life cycle of fungi. 2+1
  - (b) What is planogametic copulation? How does it differ from gametangial contact? 2+1
  - (c) Describe the different types of sexual fruit-bodies found in Ascomycota. 3
  - (d) Enumerate the salient features of Oomycota. 3
  - (e) What is acervulus? Define dikaryophase. 2+1
  - (f) Discuss the role of plant quarantine in disease management. 3
  - (g) Write the ecological significance of lichen. 3
  - (h) Briefly explain the phenomenon of biological specialization. 3
  - (i) Name the causal organism of white rust of crucifers. Why is the disease so named? What is coenocentrum? 1+1+1
  - (j) Write short note on fairy ring. 3
  - (k) What is disease triangle? How can a favourable microclimate for infection influence disease triangle area? 2+1

- (l) Define mycosis. Mention the name of the causal organism and treatment of candidiasis. 1+1+1

3. Answer any *two* questions from the following: 5×2 = 10

- (a) Mention the affinity of fungi with plants and animals. 5
- (b) Name two antifungal antibiotic and their causal organism. Write down the role of fungi in food industry. 2+3
- (c) What do you mean by holocarpic fungus? With suitable illustrations, discuss the life cycle of a holocarpic fungus. 1+4
- (d) Name the causal organism of Black stem rust of wheat disease. Mention its symptoms and control measures. 1+2+2

**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.*

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