



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.*

—x—