



WEST BENGAL STATE UNIVERSITY  
B.Sc. Honours 2nd Semester Examination, 2019



**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 questions briefly from the following: 1×6 = 6
  - (a) Name one ascomycetous edible fungi.
  - (b) Name one holocarpic fungi.
  - (c) What is Buller phenomenon?
  - (d) Define polyetic plant disease.
  - (e) Name one litmus producing lichen.
  - (f) Write down the name of a fungi used in biological control of pests.
  
2. Answer any **eight** questions from the following: 3×8 = 24
  - (a) Describe the sexual reproduction in *Phytophthora* sp. 3
  - (b) Discuss the role of fungal secondary metabolites in pharmaceutical industry. 3
  - (c) Mention the ecological significance of lichen. 3
  - (d) Distinguish between obligate parasite and facultative parasite. 3
  - (e) Write down the characteristic features of Chytridiomycota. 3
  - (f) Describe the asexual reproduction in *Rhizopus* sp. 3
  - (g) Briefly describe the sequence of events of parasexual cycle in fungi. 3
  - (h) Write in brief the anatomical features of the gill of *Agaricus* sp. 3
  - (i) Write a short note on the types of plasmodia found in slime moulds. 3
  - (j) Mention the fungal sources and uses of mycoprotein and citric acid. 1½ + 1½
  - (k) Name the causal organism of citrus canker disease and describe the symptoms of the disease. 1+2 = 3
  - (l) Discuss the role of quarantine in plant disease management. 3
  
3. Answer any **two** questions from the following: 5×2 = 10
  - (a) Describe the life cycle of *Albugo* sp. 5
  - (b) Describe the development of fruit body of a coprophilous fungi. 5
  - (c) What is mushroom? Briefly discuss the process of mushroom cultivation. 1+4 = 5
  - (d) Name the causal organism of late blight of potato. Mention its symptoms and control measures. 1+2+2 = 5

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