



**WEST BENGAL STATE UNIVERSITY**

B.Sc. Honours 2nd Semester Examination, 2020

**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 the following questions in brief: 1×6=6
  - (a) Define Straminopila.
  - (b) Name one bioluminescence fungi.
  - (c) Name one edible mycorrhiza.
  - (d) What is a crozier?
  - (e) What is myxamoeba?
  - (f) What is hyperplastic symptom?
  
2. Answer any **eight** questions from the following: 3×8=24
  - (a) Briefly explain the phenomenon of gametangial copulation present in *Rhizopus*.
  - (b) Draw and describe conidial structures of *Penicillium*.
  - (c) Distinguish between pycnidia and perithecia.
  - (d) What do you mean by somatogamy? Give example. 2+1
  - (e) Differentiate between uredospore and teleutospores.
  - (f) Write the causal organism and symptoms of Blast of Rice.
  - (g) Write the role of mycorrhiza in mineral nutrition.
  - (h) Write down the salient features of Chytridiomycota.
  - (i) Describe the different sexual spore forms in fungi.
  - (j) Schematically represent the life cycle of *Phytophthora sp.*
  - (k) Differentiate between pandemic and sporadic diseases.
  - (l) Describe Koch's postulates. Mention its limitations. 2+1
  
3. Answer any **two** questions from the following: 5×2=10
  - (a) Define clamp connection. Mention its role in the formation of dikaryotic mycelium. 2+3
  - (b) Write the role of fungi as biofertilizer. Name two fungi used as myconematocides. 3+2
  - (c) Describe, with labelled diagram, the process of sexual reproduction in *Agaricus sp.* 3+2
  - (d) Name the causal organism of Citrus canker. 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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