

2021

BOTANY — HONOURS

Paper : CC-2

Full Marks : 50

*The figures in the margin indicate full marks.**Candidates are required to give their answers in their own words as far as practicable.*

1. Answer **any five** questions of the following : 2×5
- (a) What is dolipore septum?
 - (b) Give two important characteristic features of Oomycota.
 - (c) What is the difference between primary and secondary inoculum?
 - (d) What are Phycobiont and Mycobiont?
 - (e) Distinguish between Necrotroph and Biotroph.
 - (f) What is sporadic disease?
 - (g) Define polycyclic disease with example.
 - (h) What is Phytoanticipin? Give an example.
2. Answer **any two** questions of the following :
- (a) Explain briefly the economic importance of lichen. 5
 - (b) Describe in brief the process of penetration of pathogen during host-parasite interaction. 5
 - (c) Discuss briefly the different types of hyphal forms in fungi. 5
3. Answer **any three** questions of the following :
- (a) Give an illustrated account of asexual and sexual reproduction of *Rhizopus*. 5+5
 - (b) (i) What are homothallism and heterothallism?
(ii) Discuss the different types of heterothallism present in fungal members. (2+2)+6
 - (c) (i) What is Induced Systemic Resistance?
(ii) Discuss in brief, the systemic Acquired Resistance in host plants.
(iii) Write a note on Plant Quarantine. 1+5+4
 - (d) (i) Give a brief note on biological control of plant disease.
(ii) Explain the steps which are to be followed in Koch's Postulates. 5+5
 - (e) (i) What is a Polymorphic rust fungus?
(ii) Describe in brief, the disease cycle of Black Stem rust of wheat. Name the causal organism and state the control measures of the disease. 2+(4+1+3)
-