

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