

Botany [Honours]
[CBCS]
B.Sc. Second Semester End Examination-2023
(Regular & Supplementary Paper)
PAPER-C3T
[Mycology and Plant Pathology]

Full Marks: 40

Time: 02 Hrs

The figures in the right hand margin indicate marks
Candidates are required to give their answers in their own words as
far as practicable
Illustrate the answers wherever necessary

Group A

1. Answer any FIVE questions of the following: **5x2= 10**
- Write two differences between Ascomycota and Basidiomycota.
 - What is holocarpic fungi? Give the example.
 - Distinguish between blight and canker?
 - Differentiate between endemic and epidemic disease.
 - What is meant by heteroöicious rust? Give example.
 - What is parasexual cycle?
 - What is soredia & isidia?

(2)

Group B

2. Answer any FOUR questions of the following: **4x5 = 20**
- a. Schematically represent the asexual reproduction in *Synchytrium sp.* Mention the economic importance of *Aspergillus sp.*
 - b. Describe the economic importance of lichen. Name one fossil lichen. 4+1
 - c. Name the casual organism of white rust of crucifer. Give a schematic outline of its life cycle. 1+4
 - d. Describe different types of fruiting bodies on Myxomycetous.
 - e. Discuss the application of fungi in food industry.
 - f. What is quarantine law? Discuss its importance in plant discuss control. 2+3

Group C

3. Answer any ONE question of the following: **1x10 = 10**
- a. What is mycotoxin? Briefly describe the process of cultivation of oyster mushroom. 2+8
 - b. Schematically represent the life cycle of *Puccini sp.* Describe the symptoms and control measures of blast stem black of wheat. 5+(3+2)
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