

U.G. 2nd Semester Examination - 2020

BOTANY

[HONOURS]

Course Code : BOTH/CC-T-04

Full Marks : 40

Time : $2\frac{1}{2}$ Hours

The figures in the right-hand margin indicate marks.

Candidates are required to give their answers in their own words as far as practicable.

Answer all the questions.

1. Answer any **five** questions: 2×5=10
- Write the affinities of fungi with animals.
 - Distinguish between gametangial contact and gametangial copulation.
 - Mention the types of ascocarps found in Ascomycota with example.
 - What is physiological specialization? Give an example.
 - Mention the status of slime molds.
 - What do you mean by mycoinsecticide? Give an example.
 - What is mycobiont? Give an example.

- h) What do you mean by secondary metabolites? Give an example.

2. Answer any **two** questions: 5×2=10
- What do you mean by true fungi? Describe cell wall composition of true fungi. $1\frac{1}{2}+3\frac{1}{2}=5$
 - Write the characteristic features of Zygomycota. Write the name of a member of Zygomycota. 4+1=5
 - What is plasmodium? Describe different types of plasmodia. 1+4=5
 - Describe sexual reproduction of *Albugo* with sketches. $3\frac{1}{2}+1\frac{1}{2}=5$
3. Answer any **two** questions: 10×2=20
- What do you mean by coprophilous fungus? Describe life cycle of a coprophilous fungus belonging to Ascomycota included in your syllabus. Give suitable figures in this regard. $1\frac{1}{2}+6\frac{1}{2}+2=10$
 - Describe symptoms, disease cycle and control measures of 'Brown spot' disease of rice. 4+3+3=10

[Turn over]

c) Explain different types of chemical control of plant diseases. What is mycofungicide?

8+2=10

d) Describe application of fungi in fermentation, baking, organic acid production and enzyme production.

$2\frac{1}{2} \times 4 = 10$
