

U.G. 2nd Semester Examination - 2021

BOTANY

[HONOURS]

Course Code : BOT-H-CC-T-04

Full Marks : 20

Time : 1 Hour

The figures in the right-hand margin indicate marks.

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

1. Answer any **five** questions: 1×5=5
- a) What is the uniqueness of fungal nuclear division?
 - b) What is woronin body?
 - c) Write two edible mushrooms and two poisonous mushrooms.
 - d) Write four important characters of true fungi.
 - e) Distinguish between horizontal and vertical resistance.
 - f) What is necrotic defence reaction?
 - g) Define 'Disease Tetrahedron'. Name the components.
 - h) What is the contribution of Anton de Bary in plant pathology?

[Turn over]

2. Answer the following (any **one**) : 5×1=5
- a) Write short notes of
 - i) mycofungicides and 2½+2½=5
 - ii) mycoinsecticides
 - b) What are mycorrhizae? Describe in brief its role in agriculture and forestry. 1+4=5
 - c) Describe the different types of ascocarp with suitable sketches. 5
3. Answer the following (any **one**) : 10×1=10
- a) Give a concise account of post-infectious structural defense mechanisms of plants. Describe the methods involved in biological control of plant diseases. 5+5=10
 - b) Describe the symptoms, disease cycle and control measures of late blight of potato. Mention the predisposing factor of the disease. (2+4+2)+2=10
 - c) Briefly describe with neat sketches the different stages of development of spore types in *Puccinia graminis* occurring of wheat. 10

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