UG 1st Semester Examination 2021 BOTANY (Honours)

Paper: DC- 2 [CBCS]

Full Marks: 25 Time: Two Hours

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* of the following:

 $1\times5=5$

- a) Justify the term fungi imperfecti.
- b) What is cleistothecium? Give an example.
- c) Define inoculum potential.
- d) Name the causal organism of Citrus canker and black stem rust of wheat.
- e) What is mycobiont? Mention its role.
- f) What is PR protein? Give one example.
- g) What is parasexuality?

2. Answer any *four* of the following:

 $3 \times 4 = 12$

- a) Give the characteristic features of Ascomycotina.
- b) Describe the ecological role of lichens in pollution monitoring.
- c) Write a brief note on the disease triangle.
- d) Describe Koch's postulate. State its significance.
- e) Explain the strategies of biological management of plant diseases.
- f) What is phytoalexin? State its functions.

(1+2)

g) Briefly state the role of mycorrhizae in agriculture and forestry.

3. Answer any *one* of the following:

 $8 \times 1 = 8$

a) Describe with a suitable diagram of the mechanism of host-penetration. Differentiate between SAR and ISR. (4+2)+2

b)	State the role of funci in histochnology. With suitable diagram describe the industrial
b)	State the role of fungi in biotechnology. With suitable diagram describe the industrial production of Ethanol. (3+5)