

Bankura University
B.Sc 2nd Semester (Honours) Examination, 2021
Subject: Botany

Course ID: 21311

Course code: SHBOT/201/C-3

Course Title: Mycology & Phytopathology

Full Marks: 25

Time: 1h 15 min.

The figures in the margin indicate full marks

Answer all the questions.

UNIT I

1. Answer *any five* of the following questions: (1x5)=5

- a) Name a fungus where gametangial copulation is observed.
- b) Which is anamorphic stage of *Talaromyces*?
- c) Name one poisonous mushroom.
- d) Give example of a corticolous lichen.
- e) What is VAM?
- f) Give example of a mycocide.
- g) What is the source of ergotamine?
- h) Name one heteroecious rust fungus.

UNIT II

2. Answer *any two* of the following questions: (5x2)=10

- a) Enumerate the characteristic features of plasmodial slime molds.
- b) Why lichens are economically important?
- c) Give a concise account of industrial application of fungi.
- d) Briefly describe the symptoms and control measures of late blight of potato.

UNIT III

3. Answer *any one* of the following questions: (10x1)=10

- a) Explain the phenomenon of dikaryotization with reference to life cycle of *Agaricus*. How *Synchytrium* reproduce asexually? 6+4
- b) Give an account of post infectious structural defense mechanisms of plants. What is phytoalexin? 8+2