

PG CBCS
M.Sc. Semester-I Examination, 2020
BOTANY
PAPER: BOT 103
MYCOLOGY & PLANT PATHOLOGY

Full Marks: 40**Time: 2 Hours**

Write the answer for each unit in separate sheet

BOT 103.1
MYCOLOGY

1. Answer any two questions from the following: **10 x 2 =20**

- I. How fungi are closely related to animals? Distinguish between homothallism and heterothallism. 4+6
- II. Briefly describe the mating system in Basidiomycota. Discuss various kinds of sexual reproduction found in fungi. 5+5
- III. What are holocarpic fungi? Write note on clamp connection in fungi. 2+8
- IV. Define sterigma and hilum. Explain the molecular basis of heterthallism in fungi. 4+6
- V. Explain the mode of action of aflatoxins. Role of fungi in antibiotic and organic acids production. 5+5

BOT 103.2
PLANT PATHOLOGY

2. Answer any two questions from the following: **10 x 2 = 20**

- I. Write down the infection phenomena of plant pathogens and also discuss the factors affecting the infection.
- II. Discuss different methods of control of plant diseases.
- III. Discuss different defense mechanisms of plants against plant pathogens.
- IV. Give symptoms, etiology, and epidemiology of Black stem rust of wheat.
- V. Discuss the role of plant growth regulators in plant diseases.
