REV-01
MSB/05/08

2025/11

SET A

M.Sc. BOTANY
THIRD SEMESTER
MYCOLOGY AND PLANT PATHOLOGY
MSB-303(F)

[USE OMR FOR OBJECTIVE PART]

Duration: 1.30 hrs. **Full Marks: 35**

Objective

Time: 15 min. **Marks: 10**

Choose the correct answer from the following: ***1X10=10***

1. Which of the following fungi shows gametangial contact?
   a. *Atrhrobotry* ssp. b. *Albugo* sp.
   c. *Erysiphae* sp d. *Pythium* sp

2. The union of two somatic hyphae of opposite sex in fungi known as
   a. Progamy b. Microgamy
   c. Somatogamy d. karyogamy

3. This fungi division includes 'Club fungi'?
   a. Zygomycota b. Deuteromycota
   c. Basidiomycota d. Ascomycota

4. The number of basidiospores formed in *Agaricus* sp is
   a. 3 b. 4
   c. 6 d. 8

5. Exclusion of plant diseases by legislation is known as
   a. Disease resistance b. Cultural control
   c. Biological control of plant d. Plant quarantine

6. Red rust of wheat is caused by
   a. *Puccinia graminis tritici* b. *Claviceps purpurea*
   c. *Melamspor alini* d. *Aspergillus*sp

7. Late blight of potato is caused by
   a. *Alternariasolani* b. *Fusariumculmorum*
   c. *Phytophthorainfestans* d. *Mucor*sp

8. Sporangiospores found in
   a. *Albugo* sp b. *Mucor* sp
   c. *Agaricus* sp d. *Puccinia* sp

9. Coenocytic fungi are
   a. With septa b. One septa

c. Two septa
d. Without septa

10. An example of facultative saprophytes is
a. *Taphrina*sp
b. *Fusarium*sp
c. *Pythium*sp
d. *Albugo*sp

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(Descriptive)

Time : 1 hrs. 15 min. **Marks : 25**

[Answer question no.1 & any two (2) from the rest]

1. Write short notes on different modes of reproduction in fungi? 5

2. Write a note on the application of fungi in the field of biotechnology? 10

3. Write short notes on: 5+5=10
   a. Plant Disease forecasting
   b. Integrated disease management

4. Write short notes on: 5+5=10
   a. Chemical control of plant diseases
   b. Environmental factors on epidemiology

5. Write short notes on: 5+5=10
   a. Nutrition in fungi
   b. Economic importance of fungi

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