REV-01
MSB/10/16

2025/12

SET A

M.Sc. BOTANY
FIRST SEMESTER
MYCOLOGY
MSB-105

[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. Basidiospores are attached to the basidia through the
   a. Vesicles b. Paraphysis
   c. Sterigmata d. Mutalae

2. Which of the following fungi shows zygospore formation?
   a. *Fusarium* sp. b. *Alternaria* sp.
   c. *Mucor* sp. d. None of these

3. Which of the following fungi is known as Black mold?
   a. *Aspergillus niger* b. *Ustilago*sp.
   c. *Fusarium* sp. d. *Phytophthora* sp.

b. c. d.

4. An ascocarp containing a minute opening called ostiole is called a
   a. Perithecium b. Gymnothecium
   c. Apothecium d. Pseudothecium

5. The first Scientist to classify fungi on the basis of reproductive features is
   a. Smith (1955) b. Alexopolus (1962)
   c. Ainsworth (1973) d. Webber (1994)

6. Late blight of potato is caused by
   a *Phytophthora infestans* b *Helminthosporium oryzae*
   c *Alternaria solani* d *Albugo candida*

7. Which of the following is a specialized resting spore?
   a Zygospore b Ascospore
   c Basidiospore d Chlamydospore

8. Yeast belong to class
   a. Zygomycetes b. Ascomycetes
   c. Basidiomycetes d. Deuteromycetes

9. Clamp connections are characteristic features found in
   a. Ascomycetes b. Oomycetes

c. Basidiomycetes

d. Zygomycetes

10. Red Rest of wheat is caused by

a. *Alternaria* sp.

b. *Pucciniagraminis-tritici*

c. *Fusarium* sp.

d. *Phytophthora* 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 note on the general characteristics of fungi. **5**

2. Describe briefly the symptoms, causal organism and reproductive cycle of late blight of potato. **10**

3. What are ascospores and basidiospores? With a simple diagram, write short notes on: **2 + 8 = 10**
   a. Reproductive structure of ascomycetes
   b. Reproductive structure of basidiomycetes

4. Describe briefly the different stages of lifecycle of *Pucciniagraminis-tritici* **10**

5. Write short note on: **5+5 = 10**
   a. Spore dispersal mechanisms in fungi
   b. Types of ascocarps

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