

M.Sc. BOTANY  
FIRST SEMESTER  
MYCOLOGY  
MSB-105(REPEAT)  
[USE OMR FOR OBJECTIVE PART]

**SET  
A**

Duration: 1.30 hrs.

Full Marks: 35

Time: 15 min.

**( Objective )**

Marks: 10

1X10=10

Choose the correct answer from the following:

- Which of the following is a true fungal taxa?
  - Ascomycota
  - Oomycota
  - Myxomycota
  - All of the above
- Which of the following is associated with Basidiomycetes?
  - Conspicuous fruiting bodies
  - Asexual and sexual reproduction
  - Clamp connections
  - All of the above
- Fluid pressure catapult mechanism is not associated with
  - Osmotic water absorption
  - Spore dispersal
  - Ascocarps
  - Ascobolusimmersus*
- Which of the following is not a specialized spore?
  - Sporangiospores
  - Blastospores
  - Clamydospores
  - None of the above
- The ecological and economic importance of fungi is attributed to their capability in production of
  - Antibiotics and bioactive compounds
  - Food preservatives and alcohol
  - Specialized enzymes for biodegradation
  - All of the above
- The number of basidiopores formed in *Agaricus* sp is
  - 3
  - 4
  - 2
  - 8
- Aspergillus* reproduces via
  - Spores
  - Conidia
  - Budding
  - Fragmentation
- Smut is caused by
  - Aspergillus*
  - Claviceps*
  - Ustilago*
  - Alternaria*

9. The branches of conidiophores of *Penicillium* end in conidia bearing structures called as
- a. Paraphysis
  - b. Sterigmata
  - c. Mutalae
  - d. None of the above
10. Heterothallism is found in
- a. *Mucor*
  - b. *Puccinia*
  - c. *Penicillium*
  - d. None of the above

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**( Descriptive )**

Time : 1 hrs. 15 min.

Marks : 25

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

1. What are sporangiospores? Write short note on motile spores 1+4=5
  
2. With proper diagram, write note on sexual reproduction and life cycle of Basidiomycota 10
  
3. With simple diagrams, wherever required, write short notes on: 5x2=10
  - a. Types of Ascocarps
  - b. Sporocarps of Basidiomycetes
  
4. With simple diagrams, write short notes on: 5x2=10
  - a. Reproduction in *Mucor*
  - b. Difference between *Aspergillus* and *Penicillium*
  
5. Discuss briefly the symptoms, causal organism, reproduction and preventive measures of rust of wheat? 10

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