

Time: 15 min.

Marks: 10

Choose the correct answer from the following:

$$1 \times 10 = 10$$

1. Which of the following is a true fungal taxa?

- a. Ascomycota
- b. Oomycota
- c. Myxomycota
- d. All of the above

2. Which of the following is associated with Basidiomycetes?

- a. Conspicuous fruiting bodies
- b. Asexual and sexual reproduction
- c. Clamp connections
- d. All of the above

3. Fluid pressure catapult mechanism is not associated with

- a. Osmotic water absorption
- b. Spore dispersal
- c. Ascocarps
- d. *Ascobolus immersus*

4. Which of the following is not a specialized spore?

- a. Sporangiospores
- b. Blastospores
- c. Clamydospores
- d. None of the above

5. The ecological and economic importance of fungi is attributed to their capability in production of

- a. Antibiotics and bioactive compounds
- b. Food preservatives and alcohol
- c. Specialized enzymes for biodegradation
- d. All of the above

6. The number of basidiodpores formed in *Agaricus* spp is

- a. 3
- b. 4
- c. 2
- d. 8

7. *Aspergillus* reproduces via

- a. Spores
- b. Conidia
- c. Budding
- d. Fragmentation

8. Smut is caused by

- a. *Aspergillus*
- b. *Claviceps*
- c. *Ustilago*
- d. *Alternaria*

9. The branches of conidiophores of *Penicillium* end in conidia bearing structures called as

- a. Paraphysis
- b. Sterigmata
- c. Mutualae
- 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: $5 \times 2 = 10$
 - a. Types of Ascocarps
 - b. Sporocarps of Basidiomycetes
4. With simple diagrams, write short notes on: $5 \times 2 = 10$
 - 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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