

# P. P. SAVANI UNIVERSITY

Fifth Semester of B.Sc. Examination

December-2021

SSMB 3010 - Mycology-I

09.12.2021, Thursday Time: 09:00 a.m. to 11:30 a.m. Maximum Marks: 60

## Instructions:

1. The question paper comprises of two sections.
2. Section I and II must be attempted in separate answer sheets.
3. Make suitable assumptions and draw neat figures wherever required.
4. Use of scientific calculator is allowed.

## Section-I (Total Marks - 30)

### Q.1 Short Questions [10]

#### 1.1 Objectives [05]

1.1a Fruiting bodies of a slime moulds are called \_\_\_\_\_.

- A acervulus
- B sori
- C apothecium
- D perithecium

1.1b The fungi which derive their food directly from dead organic matter are known as \_\_\_\_\_.

- A Predators
- B Decomposers
- C Mutualists
- D Parasitic fungi

1.1c Body of fungi is known as \_\_\_\_\_.

- A thallus
- B chitin
- C stem
- D leaves

1.1d \_\_\_\_\_ are the root like structure of hyphae that anchor the fungus.

- A Rhizoids
- B Stolons
- C Septa
- D Thallus

1.1e A small generated cell that become large and separate from mother cells is known as \_\_\_\_\_.

- A fermentation
- B budding
- C fragmentation
- D fission

- 1.1f Which of the following is incorrect for ascomycetes?
- A they are unicellular as well as multicellular
  - B they are parasitic, saprophytic or coprophilous
  - C Neurospora, Claviceps and Yeast belong to Ascomycota
  - D coenocytic mycelium

- 1.1g Oomycetes is the alternate of \_\_\_\_\_.
- A Zygomycetes
  - B Phycomycetes
  - C Ascomycetes
  - D Club fungi

- 1.1h Several hyphae unite to form rope like strand called \_\_\_\_\_.
- A Porophore
  - B Stromata
  - C Sclerotium
  - D Rhizomorphs

- 1.1i Which property of fungi separates them from plants?
- A Have chlorophyll
  - B Have stem
  - C Lack of chlorophyll
  - D Have petals

- 1.1j What is the name of fungal infection in human beings?
- A Mycosis
  - B Fungosis
  - C Mucorsis
  - D none of the above

**1.2 Answer the Following: (MCQ/Short Question/Fill in the Blanks) [05]**

1.2a Define: Mycology.

1.2b \_\_\_\_\_ is a type of Basidiomycetes.

1.2c Define: Parasitic fungi.

1.2d Cell wall of fungi is made up of \_\_\_\_\_.

1.2e What is meant by deuteromycetes?

**Q.2 Short Notes (Attempt any two) [06]**

- A Write a note on Oomycetes.
- B Write a note on Zygomycetes.
- C Write a note on Thallus organization in fungi.

**Q.3 Explain in detail (Attempt any two) [14]**

- A Discuss classification of fungi on the basis of nutrition.
- B Explain structure and life cycle of Cellular slime molds in detail.
- C Discuss about structure and life cycle of Chytridiomycetes.



**Section-II (Total Marks - 30)**

**Q.1 Short Questions**

**[10]**

**1.1 Objectives**

**[05]**

**1.1a** A small generated cell that becomes large and separate from mother cell is a process of

- A Fermentation
- B Budding
- C Fission
- D Fragmentation

**1.1b** Economically important yeast produces

- A Waste Water
- B Avoid fermentation
- C Ethanol
- D Beer Destroyer

**1.1c** Which property of fungi separates them from plants?

- A Have Chlorophyll
- B Have Stem
- C Lack of Chlorophyll
- D Have Petals

**1.1d** Cell wall of fungi is made up of

- A Cellulose
- B Hemicellulose
- C Chitin
- D Lignin

**1.1e** Mode of reproduction is fungi

- A Sexual
- B Asexual
- C Both A and B
- D None

**1.1f** Zygomycota are also known as

- A Bread Moulds
- B Sac Fungi
- C Club Fungi
- D Fungi Imperfecti

**1.1g** No sexual stage is found in which class of fungi?

- A Ascomycota
- B Basidiomycota
- C Deuteromycota

D Zygomycota

1.1h The reproductive structures of spores are called

- A Buds
- B Fragments
- C Sporangia
- D Layers

1.1i Absorptive heterotrophic mode of nutrition is present in\_\_\_\_\_

- A Pteridophytes
- B Bryophytes
- C Fungi
- D Algae

1.1j Which of the following class does Rhizopus belong to

- A Ascomycetes
- B Chytridiomycetes
- C Deuteromycetes
- D Zygomycetes

1.2 Answer the Following:

[05]

1.2a Define : Hyphae

1.2b Give 4 examples of Fungi

1.2c What is Sporangiophore?

1.2d Define : Coenocytic Hyphae

1.2e Give 1 characteristic of Ascomycota group of Fungi.

Q.2 Short Notes (Attempt any two)

[06]

A Peziza

B Ecological Importance of Lichens

C Draw Ascomycete Life Cycle

Q.3 Explain in detail (Attempt any two)

[14]

A Mycorrhiza

B Rhizopus

C Yeast