

SSR DEGREE COLLEGE (AUTONOMOUS) NIZAMABAD
PG Sem I, Internal II
Paper II: Mycology
QUESTION BANK

I. Multiple choice questions

1. Which fungus is commonly used in the industrial production of antibiotics?

- a) *Saccharomyces*
- b) *Penicillium*
- c) *Rhizopus*
- d) *Aspergillus*

Answer: b) *Penicillium*

2. Mycorrhiza represents a symbiotic association between fungi and:

- a) Animals
- b) Bacteria
- c) Algae
- d) Plant roots

Answer: d) Plant roots

3. Which of the following fungi causes rust disease in plants?

- a) *Puccinia*
- b) *Ustilago*
- c) *Aspergillus*
- d) *Mucor*

Answer: a) *Puccinia*

4. Autotrophic nutrition in bacteria mainly occurs through:

- a) Photosynthesis and chemosynthesis
- b) Parasitism
- c) Saprophytism
- d) Symbiosis only

Answer: a) Photosynthesis and chemosynthesis

5. The rigid outer covering of a virus is known as:

- a) Capsule
- b) Cell wall
- c) Capsid
- d) Envelope

Answer: c) Capsid

6. Tobacco Mosaic Virus (TMV) is an example of a virus with:

- a) Icosahedral symmetry
- b) Complex symmetry
- c) Helical symmetry
- d) Spherical symmetry

Answer: c) Helical symmetry

7. Which method is commonly used for the purification of viruses?

- a) Filtration
- b) Centrifugation
- c) Autoclaving
- d) Pasteurization

Answer: b) Centrifugation

8. Bacteriophages are viruses that infect:

- a) Plants
- b) Animals
- c) Fungi
- d) Bacteria

Answer: d) Bacteria

9. Mycoplasma differs from bacteria mainly because it:

- a) Lacks DNA

- b) Lacks ribosomes
- c) Lacks cell wall
- d) Lacks plasma membrane

Answer: c) Lacks cell wall

10. Edible mushrooms are nutritionally rich mainly in:

- a) Fats
- b) Proteins and vitamins
- c) Starch
- d) Oils

Answer: b) Proteins and vitamins

II. Fill in the blanks

1. Fungi are used in industry for the production of alcohol, organic acids, and ____.

Answer: Antibiotics

2. ____ fungi cause plant diseases such as wilts, leaf spots, root rots, smuts, and rusts.

Answer: bacteria

3. The association between fungi and plant roots is called ____.

Answer: Mycorrhizae

4. Ectomycorrhizae and endomycorrhizae are types of ____.

Answer: Mycorrhizae

5. Mushrooms are classified as fungi used mainly as ____.

Answer: food

6. Bacteria reproduce mainly by the process of ____.

Answer: Binary fission

7. Nutrition in bacteria may be autotrophic or ____.

Answer: Heterotrophic

8. Viruses that infect bacteria are known as ____.

Answer: bacteriophages

9.The complete infectious viral particle is called a ____.

Answer:virion

10. Mycoplasma is characterized by the absence of a ____.

Answer:Cell wall

III. Descriptive questions

1.a.Explain about fungi in agriculture and forestry

(Or)

b. Write about fungi as food

2.a. Describe about economic importance of bacteria

(Or)

b. Explain about the structure of mycoplasma