

Name: _____						
Subject: Biology		Class: 11 th	Time: 80 minutes	Total Marks:	40	
Chapter No.		MJDexpert.com			Obtained marks	

Note: Please attempt any 11 short questions from Question 2. Also, attempt both parts (a and b) of Question 3. Cutting and removal of any content is strictly prohibited.

Objective-Section

Q. 1 Encircle the correct answer. (10x1=10)

1. Fungi are different from plants in that fungi:
 - (A) Have cell walls made of cellulose (B) Are autotrophic (C) Have cell walls made of chitin (D) Are motile
2. The primary ecological role of fungi is:
 - (A) Photosynthesis (B) Decomposition (C) Nitrogen fixation (D) Oxygen production
3. Which type of hyphae are characterized by having cross-walls called septa?
 - (A) Coenocytic hyphae (B) Septate hyphae (C) Rhizoidal hyphae (D) Reproductive hyphae
4. The mutualistic association between fungi and plant roots is known as:
 - (A) Lichen (B) Mycorrhizae (C) Haustoria (D) Conidia
5. Which of the following is a characteristic feature of Basidiomycota?
 - (A) Conidia (B) Ascospores (C) Basidiospores (D) Zygosporangia
6. In which type of fungi does the fusion of nuclei (karyogamy) occur after the fusion of cytoplasm (plasmogamy)?
 - (A) Zygomycota (B) Ascomycota (C) Basidiomycota (D) Deuteromycota
7. What is the primary method of asexual reproduction in yeasts?
 - (A) Conidia (B) Fragmentation (C) Budding (D) Zygosporangia
8. The characteristic structure where ascospores are produced in Ascomycota is called:
 - (A) Basidium (B) Sporangium (C) Ascocarp (D) Conidiophore
9. What type of hyphae lack septa and are multinucleated?
 - (A) Coenocytic hyphae (B) Septate hyphae (C) Rhizoids (D) Conidia
10. Which fungi group is known for having a sexual phase not observed?
 - (A) Zygomycota (B) Ascomycota (C) Basidiomycota (D) Deuteromycota

Subjective-Section

Q.2 Write short answers of any ten of the following questions: (11x2=22)

- I. Define the term "mycelium" in fungi.
- II. Describe the role of haustoria in parasitic fungi.
- III. What is the ecological significance of lichens?
- IV. Explain the function of rhizoids in saprobic fungi.
- V. Differentiate between endomycorrhizae and ectomycorrhizae.
- VI. What is the importance of chitin in the fungal cell wall?
- VII. Describe how fungi contribute to the recycling of nutrients in ecosystems.
- VIII. Explain the term "dikaryotic" in relation to fungal reproduction.
- IX. What is the role of conidia in fungal reproduction?
- X. Describe the process of asexual reproduction in yeast.
- XI. What distinguishes Basidiomycota from Ascomycota in terms of sexual reproduction?
- XII. Explain the significance of the dikaryotic phase in Basidiomycota.

Q.No.3 Long Question: (4+4=8)

- a) Describe the structural differences between septate and non-septate hyphae.
- b) State various features of fungi that adapt them to terrestrial mode of life.