



# UNIVERSITY OF THE PUNJAB

Fifth Semester – 2019

Examination: B.S. 4 Years Program

Roll No. in Fig. ....

Roll No. in Words. ....

PAPER: Higher Fungi

Course Code: BOT-301 Part-I (Compulsory)

MAX. TIME: 15 Min.

MAX. MARKS: 10

Signature of Supdt.:

**Attempt this Paper on this Question Sheet only.**

**Please encircle the correct option. Division of marks is given in front of each question.**

**This Paper will be collected back after expiry of time limit mentioned above.**

**Q.1. Encircle the right answer, cutting and overwriting is not allowed. (1x10=10)**

1. All members of the kingdom fungi are.....
  - a. Eukaryotic and heterotrophic
  - b. Multicellular and heterotrophic
  - c. Eukaryotic and autotrophic
  - d. Either mushroom and yeast
2. The sexual fruiting body of *Penicillium* is called.....
  - a. Cleistothecium
  - b. Perithecium
  - c. Apothecium
  - d. Stroma
3. The Agaricomycotina contain some 20,000 species, and about 98% of these are in the class.....
  - a. Agaricomycetes
  - b. Basidiomycetes
  - c. Deuteromycetes
  - d. None of these
4. A lichen consists of a simple photosynthesizing organism, usually green alga or \_\_\_\_\_.
  - a. Bacteria
  - b. Cyanobacteria
  - c. Green Algae
  - d. Both a & c
5. The most common asexual methods of reproduction in ascomycetes are:
  - a. Conidia
  - b. Conidia & chlamydospores
  - c. Conidia, chlamydospores & budding
  - d. All
6. "Botrytis blight" is a disease cause by fungal group \_\_\_\_\_.
  - a. Ascomycetes
  - b. Basidiomycetes
  - c. Deuteromycetes
  - d. Oomycetes
7. One of the distinctive anatomical structures of basidiomycetes is;
  - a. Clamp connections
  - b. Conidiophore
  - c. Vesicles
  - d. Metulae
8. Which fungi grow as budding single cell?
  - a. Molds
  - b. Yeast
  - c. Morels
  - d. Bracket fungi
9. The.....diseases are generally characterized by black, dusty masses of spores.
  - a. Candidiasis
  - b. Rust
  - c. Smut
  - d. None of these
10. Example of non-gilled fungus is;
  - A. *Ganoderma*
  - b. *Russula*
  - c. *Alternaria*
  - d. a & c



# UNIVERSITY OF THE PUNJAB

Fifth Semester – 2019

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Roll No. ....

**PAPER: Higher Fungi**

**Course Code: BOT-301 Part – II**

**MAX. TIME: 2 Hrs. 45 Min.**

**MAX. MARKS: 50**

**ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED**

**Q2: Briefly answer the following questions. Each question carries two marks.**

1. Differentiate between HETEROECIOUS and AUTOECIOUS rust fungi.
2. What is CONIDIAL ONTOGEMY?
3. Differentiate between TELOMORPH and ANAMORPH.
4. What is meant by PARASEXUALITY? Write its significance.
5. Write down the spore dispersal methods in BASIDIOMYCOTINA.
6. Describe TELIOSPORE germination in smut fungi.
7. Draw and label anatomy of LICHEN thallus.
8. What do you know about the economic importance of RUST FUNGI?
9. Name the different thallus type of LICHENS.
10. Name and draw most significant anatomical features of ASCOMYCETES?

**Q3: Answer the following question.**

1. Describe the mode of reproduction in ASCOMYCETES. (05 Marks)
2. Write down occurrence and importance of TELIOMYCETES as PHYTOPATHOLOGICAL FUNGI. (05 Marks)
3. Put down commercial uses of mushrooms. (05 Marks)
4. Briefly explain morphology, anatomy and development of BASIDIOCARP. (05 Marks)
5. What is CENTRA? Describe its importance in various ASCOMYCETES GENERA. (10 Marks)