



UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program : Fifth Semester – 2020

Roll No. in Fig.

Roll No. in Words.

Paper: Higher Fungi

Course Code: BOT-301

Part – I (Compulsory)

Time: 15Min. Marks: 10

Attempt this Paper on this Question Sheet only.

Division of marks is given in front of each question.

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

Signature of Supdt.:

Q.1. Encircle the right answer cutting and overwriting is not allowed. (10x1=10)

1. The black spores produced in smut are:

- (a) Chlamydospore (b) Teleutospores (c) Aeciospores (d) Basidiospores

2. Damping off is caused by:

- (a) Albugo (b) Pythium (c) Penicillium (d) Plasmodiophora

3. Each branch of Penicillium bears at its tip a group of short branches called:

- (a) Tietulac (b) Sterigmata (c) Pencillus (d) Conidia

4. Bottle shaped structure is present at the tip of each Metula called:

- (a) Metulae (b) Sterigmata (c) Pencillus (d) Conidia

5. Downy mildew is caused by:

- (a) Puccinia (b) Albugo (c) Plasmopara (d) Ustilago

6. Pseudomycelium is formed in:

- (a) Albugo (b) Pythium (c) Penicillium (d) Conidia

7. Enzyme Zymase is produced by:

- (a) Yeast (b) Pythium (c) Penicillium (d) Plasmodiophora

8. Smut is:

- (a) Puccinia (b) Albugo (c) Pythium (d) Ustilago

9. Fungi can be stained by

- a) Safranin (b) Cotton blue c) Glycerine (d) Lactophenol

10. Ergot is obtained from

- a) Rhizopus b) Claviceps c) Albugo (d) Phytomonas



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Part – II

Time: 2 Hrs. 45 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2. Give short answers of the following:

(10x2=20)

1. Differentiate between Ascospores and Basidiospores?
2. What do you know about Lichens?
3. What is Karyogamy?
4. Describe Parasexuality.
5. What do you know about Heterokryosis.
6. Differentiate between Heteroecious and Autoecious in rust fungi.
7. What is Conidial Ontogeny?
8. Write down spore dispersal in Aphylophorales.
9. Describe spore germination in Smut Fungi.
10. Are Basidiomycotina edible?

Q.3. Give brief answers of the followings.

(3x10=30)

1. Write down the occurrence and importance of Teliomycetes as phytopathogenic fungi.
2. What are Centra? Describe its importance in various Ascomycetes genera.
3. Draw and explain the general life cycle of Basidiomycetes.