

B.Sc. BOTANY
THIRD SEMESTER (REPEAT)
MYCOLOGY & PLANT PATHOLOGY
BSB-302
[USE OMR SHEET FOR OBJECTIVE PART]

**SET
A**

Duration: 3 hrs.

Full Marks: 70

Time: 30 mins.

Marks: 20

(Objective)

Choose the correct answer from the following:

1 × 20 = 20

1. Citrus canker is caused by:
a. *Xanthomonas citri*
b. *Pestalotiopsis palmarum*
c. *Colletotrichum falcatum*
d. *Podosphaera xanthii*
2. An example of macrofungi is:
a. *Mucor*
b. *Penicillium*
c. *Fusarium*
d. *Agaricus*
3. Late Blight of Potato is caused by:
a. *Colletotrichum falcatum*
b. *Phytophthora infestans*
c. *Xanthomonas citri*
d. *Magnaporthe oryzae*
4. Fungi used in production of bread is:
a. *Yeast*
b. *Mucor*
c. *Rhizopus*
d. *Puccinia*
5. is a defense mechanism present in plants.
a. Stomata
b. Cutin
c. Tendril
d. Hydathode
6. When two mycelium of opposite strains (+) & (-) come near one another, the mycelia produce small outgrowths called as:
a. Progametangia
b. Sclerotia
c. Ascus
d. Metulae
7. The reserve food in yeast is in the form of:
a. Starch
b. Cellulose
c. Oils & glycogen
d. Protein
8. *Penicillium* belongs to class:
a. Eurotiomycetes
b. Deuteromycetes
c. Basidiomycetes
d. Ascomycetes
9. Hyphae of fungi are collectively known as:
a. Sclerotia
b. Mycelium
c. Plectenchyma
d. Rhizomorph

10. Loose smut of wheat is caused by:
- | | |
|-----------------------------------|-----------------------------------|
| a. <i>Ustilago nuda</i> | b. <i>Pyricularia oryzae</i> |
| c. <i>Pestalotiopsis palmarum</i> | d. <i>Colletotrichum falcatum</i> |
11. The phenomenon in which there is involvement of two or more different type of sexes or mating types is considered as:
- | | |
|------------|-------------------|
| a. Budding | b. Heterothallism |
| c. Fusion | d. Fragmentation |
12. Fungi which can grow only on living host plant are called:
- | | |
|--------------------------|-----------------------|
| a. Obligate saprophytes | b. Obligate parasites |
| c. Facultative parasites | d. Saprophytes |
13. Conidia and sporangia are the spores produced by:
- | | |
|----------------|-------------|
| a. Virus | b. Bacteria |
| c. Phanerogams | d. Fungi |
14. Association of fungi with roots of higher plants is known as:
- | | |
|---------------|------------------|
| a. Lichen | b. Basidiolichen |
| c. Mycorrhiza | d. Ascolichen |
15. Alexander Fleming (1929) discovered:
- | | |
|---------------------|----------------|
| a. Streptomycetease | b. Penicillin |
| c. Tyrocidine | d. Giseofulvin |
16. Phytophthora belongs to family:
- | | |
|---------------------|------------------------|
| a. Pythiaceae | b. Peronophythoraaceae |
| c. Pareonosporaceae | d. Albuginaceae |
17. Grey blight disease is caused by:
- | | |
|--------------|-------------|
| a. Bacterium | b. Virus |
| c. Fungus | d. Nematode |
18. Which of them is a poisonous mushroom?
- | | |
|---------------|----------------|
| a. Agaricus | b. Volvariella |
| c. Peasurotus | d. Amanita |
19. Rhizopus belongs to class:
- | | |
|------------------|----------------|
| a. Zygomycetes | b. Oomycetes |
| c. Trichomycetes | d. Ascomycetes |
20. Mycology is the study of:
- | | |
|-------------|----------|
| a. Fungi | b. Virus |
| c. Bacteria | d. Algae |

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(Descriptive)

Time : 2 hr. 30 mins.

Marks : 50

[Answer question no.1 & any four (4) from the rest]

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| 1. Write a note on the economic importance of fungi. | 10 |
| 2. Describe in brief the symptoms, disease cycle and control measures of Late Blight of Potato. | 3+4+3=10 |
| 3. What are the types of reproduction occurring in fungi? Describe each type in brief. | 2+8=10 |
| 4. Write a note on the morphology and reproduction of <i>Mucor</i> . | 5+5=10 |
| 5. Describe the major symptoms of bacterial and fungal plant diseases. | 5+5=10 |
| 6. Name the causal organism of Red rot of sugarcane. Describe its symptoms and disease cycle in brief. | 2+4+4=10 |
| 7. Describe the different spore dispersal mechanisms present in fungi. | 10 |
| 8. Write a note on the morphology and reproduction of <i>Penicillium</i> . | 10 |

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