

M.Sc. MICROBIOLOGY
SECOND SEMESTER
PHYCOLOGY AND MYCOLOGY
MMB-202
[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

- An example of hyperplastic symptom is:
a. Witches' broom
b. Anthracnose
c. Rot
d. Die back
- "Target board effect" is related to:
a. Mucor
b. Alternaria
c. Puccinia
d. Phytophthora
- Famous Irish Famine was associated with:
a. Wilt of arahar
b. Early blight of potato
c. Late blight of potato
d. Red rot of sugarcane
- Teleospores are formed on.....
a. Uredia
b. Dikaryotic mycelium
c. Pycnia
d. Both a and b
- Acervuli are related to.....
a. Early blight of potato
b. Stem rust of wheat
c. Late blight of potato
d. Red rot of sugarcane
- Auxospore formation is found in:
a. Cyanophyceae
b. Brown algae
c. Bacillariophyceae
d. Rhodophyceae
- Reserve food of Rhodophyceae is/are:
a. Trehalose
b. Starch
c. Floridian starch
d. Oil droplets
- Pigments are distributed inof cyanophyceae.
a. Cytoplasm
b. Nucleus
c. Centrioplasm
d. Chromoplasm
- Bird nest fungi are included under:
a. Ascomycetes
b. Deuteromycetes
c. Slime moulds
d. Basidiomycetes
- Blue green algae contains.....
a. Starch
b. Cyanophycan granules
c. Floridian starch
d. Any polysaccharides

11. Myxamoebae is observed in the life cycle of.....
- | | |
|-------------------|-------------------|
| a. Slime moulds | b. Deuteromycetes |
| c. Basidiomycetes | d. Ascomycetes |
12. Fungi imperfecti is also known as:
- | | |
|--------------------|-----------------|
| a. Imperfect fungi | b. Zygomycetes |
| c. Deuteromycetes | d. Both a and c |
13. Chitin is present in:
- | | |
|------------------------------|-----------------------|
| a. Cell wall of Aspergillus | b. Cell wall of Mucor |
| c. Cell wall of Phaeophyceae | d. Both a and b |
14. Silica is present in the cell wall of:
- | | |
|-----------------|----------------------|
| a. Phaeophyceae | b. Chlorophyceae |
| c. Rhodophyceae | d. Bacillariophyceae |
15. Sexual reproduction is totally absent in:
- | | |
|-----------------|------------------|
| a. Phaeophyceae | b. Chlorophyceae |
| c. Cyanophyceae | d. Rhodophyceae |
16. A heterocyst islayered structure.
- | | |
|-----------|-----------|
| a. Single | b. Double |
| c. Triple | d. Zero |
17. Scald is injury to:
- | | |
|-------------------|-----------------|
| a. Skin of fruits | b. Leaves |
| c. Roots | d. Both a and b |
18. Vein clearing occur due to:
- | | |
|-------------|-------------|
| a. Fungi | b. Virus |
| c. Nematode | d. Bacteria |
19. Mycorrhiza is an association between:
- | | |
|----------------------------------|-------------------------------------|
| a. Algae and fungi | b. Fungi and roots of higher plants |
| c. Bacteria and leguminous plant | d. Algae and roots of higher plants |
20.is also known as conjugative fungi.
- | | |
|----------------|----------------------|
| a. Ascomycetes | b. Deuteromycetes |
| c. Zygomycetes | d. None of the above |

(Descriptive)

Time : 2 hr. 30 mins.

Marks : 50

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

1. Describe briefly the Early blight of Potato with suitable diagrams. 10
2. Write general features of lichen. Discuss the detailed internal structure of a lichen with suitable diagram. 3+7=10
3. Discuss reproduction in zygomycetes with neat labelled diagram. 10
4. Describe briefly the occurrence, vegetative structure and reproduction in Chlorophyta. 10
5. Write short notes on: 5+5=10
 - a) Fritsch classification of algae
 - b) General features of fungi
6. Explain briefly about the various symptoms of plant diseases. 10
7. Draw a neat labelled diagram of a Kelp thallus. Discuss general characteristics of Brown algae. 3+7=10
8. How VAM enhances plant growth? Draw the flow charts for isolation of mycorrhizal biofertiliser from soil sample. Write a note on its applications. 2+6+2=10

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