

M.Sc. BOTANY
THIRD SEMESTER
MYCOLOGY AND PLANT PATHOLOGY
MSB-304 F

**SET
A**

[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 1hr. 30 mins.

Full Marks: 35

Time: 15 mins.

(Objective)

Marks: 10

Choose the correct answer from the following:

1×10=10

- The first event of plant disease cycle is:
 - Penetration
 - Inoculation
 - Dissemination
 - Invasion
- The bacteria without cell wall is known as:
 - Cyanobacteria
 - Virus
 - Mycoplasma
 - Actinomycetes
- The antimicrobial substances secreted by the plants against the attack of plant pathogen is known as:
 - Phytoalexins
 - Mycotoxin
 - Endophytes
 - All of these
- Integrated disease management (IDM) helps to:
 - Reduce the pesticide residue
 - Promote healthy plants
 - Reduce water contamination
 - All of the above
- Which of these is a fungicide?
 - Bordeaux mixture
 - DDT
 - BHC
 - All of the above
- Phytoplasma having cell size ranging between:
 - 200-800nm
 - 100-400nm
 - 300-500nm
 - 50-80nm
- Which of the given is an example of a disease caused by virus?
 - Cankers
 - Late blight
 - Grey blight
 - Spotted wilt
- Which of the following factors are responsible for the spreading of plant diseases?
 - Air
 - Humidity
 - Rainfall
 - All of these
- The phytoalexin gossypol is secreted against the pathogen:
 - Verticillium alboratum*
 - Ascochyta blight*
 - Phytophthora infestans*
 - Monilinia fructicola*

10. Catechol is a phenolic compound present in:
- a. Garlic
 - b. Ginger
 - c. Onion
 - d. Mint

(Descriptive)

Time : 1 hr. 15 mins.

Marks : 25

[Answer question no.1 & any two (2) from the rest]

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|---|--------|
| 1. Write a short note on Koch's Postulates. | 5 |
| 2. Discuss briefly the symptoms caused by Fungi, Bacteria and Virus in plants. | 10 |
| 3. Write short notes on: a) Mycoplasma b) Disease cycle | 5+5=10 |
| 4. Write short notes on: a) Phytoalexins b) Phytoplasma | 5+5=10 |
| 5. Discuss briefly the defense mechanism in plants against the attack of plant pathogens. | 10 |

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