REV-01
MSB/05/10

2025/11

SET A

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

[USE OMR FOR OBJECTIVE PART]

Duration: 1.30 hrs. **Full Marks: 35**

Objective

Time: 15 min. **Marks: 10**

Choose the correct answer from the following: ***1X10=10***

1. Sandal spike of disease is caused by
   a. *Aspergillus* sp. b. *Phytoplasma.*
   c. *Penicillium* sp. d. *Neurospora* sp.

2. Mycoplasma is
   a. Eukaryotic and unicellular b. Eukaryotic andmulticellular
   c. Prokaryotic and multicellular d. Prokaryotic and unicellular

3. The antimicrobial substances secreted by the plants against the attack of plant pathogen is known as
   a. Phytoalexins b. Mycotoxin
   c. Endophytes d. All of these

4. Integrated disease management (IDM) helps to
   a. reduce the pesticide residue b. promote healthy plants
   c. reduce water contamination d. All of the above

5. Papaya mosaic disease spread by
   a. *Xanthomonas* sp b. *Myzus persicae*
   c. *Fusarium* sp d. *Erwinia*sp

6. Mycoplasma having cell size ranging between
   a. 50-300nm b. 100-400nm
   c. 300-500nm d. 70-200nm

7. Ti-Plasmid is present in
   a. *Agrobacterium radibacter* b. *Agrobacterium tumefaciens*
   c. *Xylella* sp. d. *Xanthomonas* sp

8. Wheat streak mosaic virus is spread by
   a. Mites b. animals
   c. Nematodes d. insects

9. Formation of abscission layer is a defence mechanism shows against
   a. *Fusarium*sp
   b. Xylella sp.
   c. *Xanthomonas pruni*
   d. *Alternaria* sp

10. The term Phytoalexins was given by
   a. Robert Koch
   b. E.J.Butler
   c. Stakman
   d. Muller and Borger

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(Descriptive)

Time : 1 hrs. 15 min. **Marks : 25**

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

1. Write a short notes on Phytoplasma? **5**

2. Symptoms of plant diseases caused by fungi and bacteria? **10**

3. **Write short notes on** **5+5=10**
   a. Koch's postulates
   b. Biological control of plant diseases

4. **Write short notes on** **5+5=10**
   a. Phytoalexins
   b. History of plant pathology

5. Discuss briefly the losses of crops due to plant pathogens ? **10**

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