

**SET
A**

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

[USE OMR FOR OBJECTIVE PART]

Duration: 1.30 hrs.

Full Marks: 35

Time: 15 min.

(Objective)

Marks: 10

1X10=10

Choose the correct answer from the following:

- The fungus, which is important for its genetic studies
 - Aspergillus* sp
 - Rhizopus* sp
 - Penicillium* sp
 - Neurospora* sp
- Mycoplasma is
 - Eukaryotic and unicellular
 - Prokaryotic and unicellular
 - Prokaryotic and multicellular
 - Eukaryotic and multicellular
- 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
- Fusarium* wilt of tomato is a diseases
 - Seed borne
 - Soil borne
 - Air borne
 - All of them
- Phytoplasma having cell size ranging between
 - 200-800nm
 - 100-400nm
 - 300-500nm
 - 50-80nm
- Ti-Plasmid is present in
 - Agrobacterium radibacter*
 - Agrobacterium tumefaciens*
 - Xylella* sp.
 - Xanthomonas* sp
- Uredoospores are produced in
 - Smuts
 - Rusts
 - Rhizopus
 - Mucor
- Yellowing of plants due to lack of on yield light
 - Etiolation
 - Chlorosis
 - Mosaic
 - Leaf spot

10. This species of mycoplasma causes human sterility
- | | |
|-------------------------|-------------------------|
| a. <i>T. mycoplasma</i> | b. <i>M. fermentans</i> |
| c. <i>M. hominis</i> | d. All of the above |

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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 Mycoplasma? 5

2. Discuss briefly the defense mechanism in plants against the attack of plant pathogens? 10

3. Write short notes on 5+5=10
 - a. Koch's postulates
 - b. Plant Disease cycle

4. Write short notes on 5+5=10
 - a. Phytoalexins
 - b. Dissemination of plant pathogens

5. Discuss briefly the Integrated Disease Management in plants? 10

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