



13MY 44 – II (12)

B.Sc. II Semester Degree Examination, May 2013

BOTANY

**Paper – II : Diversity of Microbes and Non-Vascular plant (Part – I)
Fungi, Lichens, Plant Diseases, Mushroom, Cultivation, Biofertilizer,
Fungicides and Bryophytes**

Time : 3 Hours

Max. Marks : 80

- Instructions :** 1) *Part – I is compulsory.*
2) Answer **any eight** questions from Part – II.
3) *Labelled diagram will enhance the value of answer.*

PART – I

I. Answer the following in brief :

(8×2=16)

- 1) What is dikaryotization ?
- 2) Write the symptoms of sorghum grain smut.
- 3) What are liver worts ? Give example.
- 4) What are elaters ? Mention their function.
- 5) What is plasmodium ? Give example.
- 6) Draw a labelled diagram of T.S. of thallus of *Authoceros*.
- 7) Name the causal organisms of Tikka disease.
- 8) What is cleistothecium ?

PART – II

II. Answer **any eight** questions :

(8×8=64)

- 9) Explain a sexual reproduction in *penicillium*.
- 10) Describe L.S. of antheridiophore of *Marchantia* with a labelled diagram.
- 11) Describe sexual reproduction in *Albugo*.

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- 12) Explain mushroom cultivation.
- 13) Explain the spores produced on what by dikoryotic mycelium of puccinia.
- 14) Describe the V. S. structure of funaria capsule with neat labelled diagram.
- 15) Explain different types of lichens with labelled diagrams and add a note on their economic importance.
- 16) Give a detailed account of fungi classification.
- 17) Describe the sporophytic evaluation in bryophytes.
- 18) Explain economic importance of fungi.
- 19) Explain. (2×4=8)
 - a) Downy mildew of Bajra.
 - b) Trichoderma.
- 20) Write notes on **any two** : (2×4=8)
 - a) Biofertilizers.
 - b) Aecidial stage.
 - c) VAM.