



11225

B.Sc. II Semester Degree Examination, May/June 2017

**BOTANY**

**Paper – II : Diversity of Microbes and Non-Vascular Plant – II**  
**Fungi, Lichen, Plant Diseases, Mushroom Cultivation, Bio-Fertilizers,**  
**Fungicides and Bryophytes**

Time : 3 Hours

Max. Marks : 80

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

**PART – I**

I. Answer the following in brief : (2×8=16)

- 1) What are slime moulds ? Give example.
- 2) Write the causal organism and symptom of Tikka disease.
- 3) Expand VAM. Mention two functions.
- 4) What is spermatization ?
- 5) What are Metallae ? Give example.
- 6) What is cleistothecium ?
- 7) Write four application of Rhizobium.
- 8) What are elaters and pseudoelater ? Mention the function.

**PART – II**

II. Answer **any four** of the following : (4×4=16)

- 9) Explain V.S. of Apothecium of Lichen.
- 10) Give the causative agent, symptom and control measures of Red-rot of Sugarcane.
- 11) Explain applications of Trichoderma.
- 12) Explain V.S. of Archegonial head of Funaria.
- 13) Explain the stages of puccinia on Berbery plant.
- 14) Explain economic importance of Lichens.

P.T.O.



III. Answer **any six** of the following :

(6×8=48)

- 15) Describe the sexual reproduction in penicillium.
  - 16) Describe L.S. of Archegoniophore of Marchantia with neat labelled diagram.
  - 17) Describe structure and asexual reproduction of Albugo.
  - 18) Describe V.S. of structure of Funaria capsule with neat labelled diagram.
  - 19) Explain the mycorrhizal association in plants and its application.
  - 20) Explain the V.S. of Marchantia sporophyte.
  - 21) Explain mushroom cultivation.
  - 22) Explain the sporophytic evolution in Bryophytes.
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