



**24124**

**B.Sc. First Semester Degree Examination, November/December 2016**  
**BOTANY – I (New Syllabus)**  
**Virus, Bacteria, Cyanobacteria, Algae, Fungi and Lichens**

Time: 3 Hours

Max. Marks: 80

**PART – A**

I. Answer **all** the following questions :

**(15×1=15)**

- 1) What is the genetic material in  $T_4$ -Bacteriophage ?
- 2) What is diatomaceous earth ?
- 3) What is the reserve food material in red algae ?
- 4) What are heteroecious fungi ?
- 5) Define the term "akinet".
- 6) Which Cyanobacteria having false branching ?
- 7) What are androspores of Oedogonium ?
- 8) Which algae commonly called as Jewel's of plant kingdom ?
- 9) Define the term "Glomerule" in Batrachospermum.
- 10) What is Coenocytic mycelium ?
- 11) What are soredia of lichens ?
- 12) What is ascogonium of Penicillium ?
- 13) What are facultative saprophytes ?
- 14) Name the causal organism of Bread mould.
- 15) Name the causative agent of grain smut in Jawar.

**PART – B**

II. Answer **any five** of the following :

**(5×5=25)**

- 16) Describe the structure of  $T_4$ -Bacteriophage with help of neat labeled diagram.
- 17) Explain the sexual reproduction in oedogonium with help of neat labeled diagram.
- 18) Explain the sexual reproduction in Rhizopus with help of neat labeled diagram.

**P.T.O.**



- 19) Describe the Uredial stage and Telial stages of Puccinia on wheat plant with help of neat labeled diagram.
- 20) Describe the ultra structure of cyanophycean cell with help of neat labeled diagram.
- 21) Mention the causative agent, symptoms and controlling measures of Tikka disease on Ground nut.
- 22) Write note on economic importance of lichens.

**PART – C**

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

**(4×10=40)**

- 23) Describe the ultra structure of Bacterium with help of neat labeled diagram.
  - 24) Write note on economic importance of algae.
  - 25) Explain the life cycle of Penicillium with help of neat labeled diagram.
  - 26) Explain the life cycle Vaucheria with help of neat labeled diagram.
  - 27) Explain the life cycle of Albugo candida on Brassica plant with help of neat labeled diagram.
  - 28) Mention the causative agent, symptoms and controlling measures of red rot sugarcane.
-