



27124(New)

B.Sc. I Semester Degree Examination, March/April - 2021

BOTANY

Viruses, Bacteria, Cyanobacteria Algae, Fungi, Lichens and

Plant Pathology

Paper - I (1.1)

(New)

Time : 3 Hours

Maximum Marks : 60

Instructions to Candidates:

1. Part - A is **compulsory**.
2. Labelled diagram will enhance the value of answer.

PART - A

Answer the following.

(10×1=10)

- 1) What is 'nif' gene? Write significance.
- 2) What are androspores?
- 3) Name the photosynthetic pigments of Rhodophyceae.
- 4) What are slime molds?
- 5) What are auxospores?
- 6) What is coenocytic hypha? Give example.
- 7) Define dikaryotization.
- 8) What is nannandrous species?
- 9) What is plasmid?
- 10) What are biofertilizers?

PART - B

Answer any **Five** of the following.

1. a) With the help of labelled diagram explain Gloeotrichia thallus. **(06)**
- b) Describe male conceptacle of Sargassum with labelled diagram. **(04)**

[P.T.O.]



2. a) Give a detailed account of algal pigments. (06)
b) Give a general account of asexual reproduction in *Albugo* with labelled diagram. (04)
 3. a) Write briefly about the spore types of *Puccinia* on wheat. (05)
b) With the help of labelled diagram describe asexual reproduction in *Volvox*. (05)
 4. a) Describe the structure of bacteriophage with a labelled diagram. (05)
b) Write a note on transduction. (05)
 5. a) Explain globule and nucleolus of *Chara* with labelled diagram. (05)
b) Give a detailed account of positive role of _____ bacteria. (05)
 6. a) Write a note on general account of Lichens. (05)
b) Write pathogen, symptoms and control measures of Red rot. (05)
 7. Give a detailed account of Fritsch's system of classification of algae. (10)
 8. Write an essay on the economic importance of fungi. (10)
-