

This question paper contains 2 printed pages]

NEPVA—2011—2024

FACULTY OF SCIENCE AND TECHNOLOGY

B.Sc. (NEP) (First Year) (First Semester) EXAMINATION

NOVEMBER/DECEMBER, 2024

BOTANY

SBOTCT-1101

(Viruses, Bacteria and Algae-I)

(Saturday, 14-12-2024)

Time : 10.00 a.m. to 12.00 noon

Time—2 Hours

Maximum Marks—40

- N.B.** :— (i) Question No. 1 is compulsory.
(ii) Of the remaining, attempt any *three* questions.
(iii) Draw neat and labelled diagram wherever required.

1. Write brief notes on the following : 10
 - (a) Yellow vein mosaic of Bhendi
 - (b) Structure of Mycoplasma
 - (c) Structure of Heterocyst in Nostoc
 - (d) Applications of algae in agriculture.

2. Describe various modes of transmission of viruses. Add a note on economic importance of viruses. 10

P.T.O.

3. Describe the process of binary fission in Bacteria. 10
4. Describe classification of algae as per F.E. Fritch. 10
5. Give an account of systematic position, occurrence and thallus structure of Oedogonium. 10
6. Write brief notes on the following : 10
 - (a) General characters of viruses
 - (b) Economic importance of Bacteria
 - (c) Graphic life cycle of Nostoc
 - (d) Structure of Pleurilocular Sporangia in Ectocarpus.