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NEPWT—50—2024

FACULTY OF SCIENCE

M.Sc. (First Year) (First Semester) EXAMINATION

NOVEMBER/DECEMBER, 2024

BOTANY

Paper—SBOTC-401

(Diversity of Microbes)

(Thursday, 12-12-2024)

Time : 10.00 a.m. to 1.00 p.m.

Time—3 Hours

Maximum Marks—80

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 :

20

(a) Structure of fruticose lichen

(b) Characteristics of deuteromycetes

(c) Economic importance of mycoplasma

(d) Cell wall of gram -ve bacteria.

P.T.O.

2. Write brief notes on the following :
- (a) Explain conjugation in Bacteria. 10
 - (b) Describe classification of virus on basis of host. 10
3. Write brief notes on the following :
- (a) Explain structure of Cleistothecium in Ascomycetes fungi. 10
 - (b) Describe composting, spawning and casing in mushroom cultivation. 10
4. Write brief notes on the following :
- (a) Explain Endo-mycorrhiza. 10
 - (b) Describe structure of urediniospore and teliospore in wheat rust. 10
5. Write brief notes on the following :
- (a) Describe Grassy shoot disease. 10
 - (b) Explain symptoms and control measures of citrus canker. 10
6. Write brief notes on the following : 20
- (a) Transformation in Bacteria
 - (b) Beam mosaic virus
 - (c) Thallus of Rhizopus fungi
 - (d) VAM Importance.