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NEPNY-05-2023

FACULTY OF SCIENCE AND TECHNOLOGY

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

NOVEMBER/DECEMBER, 2023

BOTANY

Paper-SBOTC-401

(Diversity of Microbes)

(Wednesday, 20-12-2023)

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

Time—3 Hours

Maximum Marks—80

- N.L. := (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:

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- (a) Features and uses of VAM.
- (b) Asexual reproduction in phytophthora fungi.
- (c) Write any two methods transmission of plant virus.
- (d) Chemoautotrophic bacteria.

P.T.O.

WT		(2) NEPNY—05—	-2023
2.	(a)	Explain asexual reproduction in zygomycetes.	10
	(<i>b</i>)	Describe fungi as biofertilizers.	10
3.	(a)	Explain yellow vein mosaic of Bhendi.	10
	(<i>b</i>)	Describe Gram staining of Bacteria.	10
4.	(a)	Explain four types Mushrooms and medicinal uses.	10
	(b)	What are Deuteromycetes ? Describe characteristic feature	res of
		Deuteromycetes.	10
5.	(a)	Explain transformation in bacteria.	10
	(b)	Describe economic importance of Mycoplasma.	10
6.	Write	brief notes on the following:	20
	(a)	Structure of bacterial cell	
	(<i>b</i>)	Chemical composition of virus	
33	(c)	General characters of mastigomycotina	
Sh.	(d)	Role of fungi in agriculture.	