Microbiology [Major] [NEP]

B.Sc. First Semester End Examination-2024 [Supplementary Paper] PAPER-MCB MJ-101T

[Introduction to Microbiology and Microbial Diversity]

Full Marks: 40

Time: 02 Hrs.

The figures in the right hand margin indicate marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

Group A

1.	Answer any FIVE questions of the following:	5x2 = 10
a)	What is nucleocapsid?	2
b)	Differentiate between protista and monera.	2
c)	What are the different pigments-present in algae?	2
d)	List the name of two scientists who disproved the co	oncept of
	spontaneous generation.	2
e)	Write down the scopes and applications of microbiology	7. 1+1
f)	What is Leishmaniasis?	2
g)	What is fermentation?	2

h)	Write	down	the	contributions	of	Paul	Ehrlich	and	Edward
	Jenner								1+1

Group B

2.	Answer any FOUR questions of the following: 4x5	= 20
a)	What is golden era of microbiology? What is amoebiasis?	3+2
b)	Write down applications of algae in agriculture, industry	, and
	food.	+2+1
c)	Briefly describe the mode of reproduction of fungi.	5
d)	Write down the general characteristics of plasmodium	5
e)	Write down the differences between prokaryotic and eukar	yotic
	organisms.	5
f)	Write down the economic importance of fungi.	5

Group C

3. Answer any ONE question of the following: $1 \times 10 = 10$

- a) Write down the limitation (s) of three kingdom system. Write down the concept of five kingdom system. Write down the general characteristics of virus, viroid and prion.
- b) Write down the Carl Woese's three kingdom classification systems and their utility Differentiate between archaea and eubacteria, What is heterokaryosis?

 3+4+3