B. Sc. Sem. - IV

MI-204: MICROBIOLO	GY (MICROBIAL	BIODIVERSITY
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Time: 3 Hours]	We also the property last take the figure		The second second of the second of	[Max.	Marks:	70
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- Instructions: (1) Right side indicate marks.
 - (2) Draw figures, wherever necessary.

Answer the following questions: (any two) 1.

- (a) Write a brief account of diversity amongst microorganisms.
- (b) Describe the events responsible for origin of life and further leading to development of biodiversity.
- (c) Discuss the concept of species for Prokaryotic microorganisms.
- (d) Write a note on association of microorganisms, related with human welfare.

Write as required: (any two) the pinaxA at Jank?

- 14
- (a) Enlist different types of microscopy, discuss any one microscopy with its applications in assessment.
- (b) Describe different cultural characteristics studied for identification of bacteria.
- (c) Write a note on any one genetic method, used for the identification of bacteria.
- (d) Discuss the important parameters essential for the preparation of cultural media.

3. Answer the following: (any two)

14

- (a) Discuss various morphological characteristics of bacteria, that helps in identification of their biodiversity.
- (b) Write a brief account for nutritional types of bacteria.
- (c) What are Archaeobacteria? Discuss groups of Archaeobacteria.
- (d) Describe the significance of spore in the study of Biodiversity.

112	·	Microbial Biodiversi
4.	Exp	lain the following: (any two)
	(a)	Morphological characteristic of Fungi. Ecological significance of Algae.
: 70	(b)	Ecological significance of Aigue.
Section 1	(c)	Distinguish Characteristics of Protozoa.
	(d)	Viruses are link between living and non-living entities.
5.	Wri	te briefly in one or two lines:
4,4	(1)	What is phylogenetic relationship?
.201	(2)	Mention three major branches of evolutionary tree.
7911	(3)	What are Organelles? In the events respond (a)
מח כ	(4)	What is percentage G + C? to meaning and saupaid (a)
	(5)	Name two fluorescent dyes.
13,33,70	(6)	Name types of Electron Microscopes.
PI	(7)	
7		What is Axenic Culture?
		Name one thermophilic bacteria.
_ 0	(9)	and obligate parasites :
101		Define: Prions.
	(11)	Write one distinguishing character of algae.
503	(12)	
and the last	(13)	Define Ecological Niche
JAÇL	(14)	Define Ecological Niche. Name types of Mycorrhiza.
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