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DCMB101

Reg. No.				

I Semester B.Sc. Degree Examination, May/June - 2022

MICROBIOLOGY(DSC)

General Microbiology

(NEP CBCS Semester Scheme Freshers)

Paper: 1

Time: 21/2 Hours

Maximum Marks: 60

Instructions to Candidates: i)

Answer all the Parts

ii) Draw diagrams wherever necessary

PART - A

I. Write Short notes on Any Four of the following:

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- 1) Martinus Beijerinck
- 2) Nature of stains
- Slant culture
- 4) Archaeal cell membrane
- 5) Slime layer
- 6) Cilia.

PART - B

II. Answer any Four of the following:

 $(4 \times 5 = 20)$

7) Discuss - 'Radiation as a method of Sterilization'.

(5)

Give an account of 'Origin of life'.

(5)

9) a) What is simple staining?

(1+4)

- b) Describe the procedure of 'Capsule Staining'.
- 10) a) What are fimbriae?

(1+4)

b) Give an account of the structure and function of Endoplasmic reticulum.

P.T.O.

	CO	III	(2)	DCMB101
	11)	a)	What is a bacterial cell cycle?	(3+2)
		b)	Write a note on 'extra chromosomal material'.	
	12)	a)	List the single membrane containing organelles of eukaryo	tic cells. (2+3)
		b)	Classify bacteria based on their shape and arrangement.	
			PART - C	
III.	Ans	wera	any Four of the following:	(4×8=32)
	13)	Ехф	lain the working principle, construction and operation of a com	pound microscope. (8)
	14)	Loui	is Pasteur and Edward Jenner are pioneer Microbiologists. Su	bstantiate. (8)
	15)	a)	What is differential staining?	(2+6)
		b)	Elaborate on the principle and procedure of Gram staining.	
	16)	a)	Briefly explain - 'Binary fission' in bacteria	(3+5)
		b)	Describe the structure of bacterial flagella.	
	17)	a)	List the various inclusion granules present in a bacterial cell	. (2+6)
		b)	Elaborate on the structure and functions of Mitochondria.	
	18)	Wha	t are endospores? Discuss their formation, germination and	significance. (8)
			VIJAYA CO Jayanagar Bangalore	- sork