22BCU206/18BCV06/18BCU06

PSG COLLEGE OF ARTS & SCIENCE

(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2023

(Second Semester)

Branch -BIOCHEMISTRY

MICROBIOLOGY

	Ti		SECTION-A (5 Marks)	Maximum: 50 Marks
			Answer ALL questions stions carry EQUAL marks	$(5 \times 1 = 5)$
1	(i) (ify the chemical present Cellulose Peptido glycans	in the gram positive bacterial co (ii) Lipid bilayer (iv) Collagen	ell wall.
2.	(i) C	Blue Green Algae is calle Cyanobacteria Rhodophyceae	ed as. (ii) Xanthophyceae (iv) Pheophyceae	
3.		e the prevention vaccine Tetracycline DPT	e of Tuberculosis (ii) Pencillin (iv) BCG	
4.	(i) (e the protein coat surrour Capsomere Coliphage	nded the nucleic acid of virus. (ii) Capsid (iv) Prion	
5.·	(i)	is activated sludge? Distilled bacteria Sediment bacterial flocs	(ii)Fermented bacteria (iv) Fungi	
		· · · · · · · · · · · · · · · · · · ·	ECTION - B (15 Marks) Answer ALL Questions testions Carry EQUAL Marks	$(5 \times 3 = 15)$
6.	(a)	Explain the Principle an	d use of fluorescent microscop OR	e.
	(b)	Explain the bacterial gr	owth curve.	
7.	(a)	(a) Narrate the structure and function of cyanobacteria. OR		
	(b)	Outline the life cycle o	f Yeasts.	
8.	(a)	Write a note on water b	oorne diseases of Infectious hep OR	atitis.
	(b)	Narrate the aetiology	and symptoms of Rabies.	

(a) Describe the lysogenic and lytic pathway of T4 phages.

(b) Explain the mechanism of physical mutagenisis.

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10. (a) Write short notes on Mycorrhizae.

OR

(b) Explain the role of microbes in waste water treatments.

SECTION -C (30 Marks)

Answer ALL questions
ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$

11. (a) Discuss about the Principle and application of light microscope.

OR

- (b) Summarise the physical and chemical methods of sterilization techniques.
- 12. (a) Highlight the structure and functions of bacterial cell wall.

OR

- (b) Enumerate the economic importance of Algae.
- 13. (a) Discuss the host-parasite interactions.

OR

- (b) Illustrate the symptoms and prevention of TB.
- 14. (a) Describe the mutagenesis and its types.

OF

- (b) Enumerate the animal viruses SV40 and its importance.
- 15. (a) Elucidate the Nitrogen cycle.

OR

(b) Outline the steps involved in the Penicillin Production.

END

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