TOTAL PAGES: 2 **22BTP103** 

# PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

## **MSc DEGREE EXAMINATION DECEMBER 2022**

(First Semester)

#### Branch - BIOTECHNOLOGY

### APPLIED MICROBIOLOGY

Time: Three Hours			Maximum: 50 Marks			
SECTION-A (5 Marks) Answer ALL questions ALL questions carry EQUAL marks $(5 \times 1 = 5)$						
1			` '	Louis Pasteur Robert koch		
2		•	(ii)	the evolutionary relationsl 5S rRNA 18S rRNA	nip between	
3			(ii)	life-threatening situations Amphicillin Chloromphenicol	when no	
4			(ii)	sphere is the Atmosphere organism		
5		Which of the following bacteria is from the infection known as phary (i) Streptococcus pneumoniae (iii) Streptococcus pyogenes	ngit (ii)	is?		
$\frac{\text{SECTION - B (15 Marks)}}{\text{Answer ALL Questions}}$ ALL Questions Carry EQUAL Marks (5 x 3 = 15)						
6	a	Classify the bacteria based on morphology.  OR				
	b	Mention the factors affecting the growth of microorganisms.				
7	a	OR				
0	b	and the second of the second o				
8	a	Write the characteristics of Antimicrobial agents.  OR				
	b Differentiate the types of antiviral agents.					

9 a Classify the agriculturally important viruses.

OR

- b Discuss the microbial transformation of minerals.
- 10 a Explain the infections caused by Aspergillus.

OR

. b Write the current scenario about the covid.

#### SECTION -C (30 Marks)

Answer ALL questions
ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$ 

11 a Highlight the milestones in the field of microbiology.

OR

- b Give a detailed account on bacterial growth curve.
- 12 a Outline the characteristic features of archeabacteria.

OR

- b Explain in detail about meta-genomics.
- 13 a Write an essay about the antifungal agents.

OR

- b List out the antimicrobial agents inhibiting the protein synthesis.
- 14 a Explain the nitrogen cycle with a neat schematic representation.

OR

- b Give the applications of microbes in diagnosis.
- 15 a Elaborate the causes and pathogencity of salmonella typhi.

OR

b Categorize the parasitic diseases in detail.

Z-Z-Z

**END**