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PSG COLLEGE OF ARTS & SCIENCE

(AUTONOMOUS)

MSc DEGREE EXAMINATION MAY 2023

(Second Semester)

Branch - ZOOLOGY

MICROBIOLOGY

		1788	CIVOD	IODOO1			
Tim	e: Thr	ee Hours			M	aximum: 50 M	arks
		Ansv	ver AL	A (5 Marks) L questions EQUAL marks	S	$(5 \times 1 = 5)$	
1	(i)	nich of these bacterial compo Cell wall) Ribosomes	onents i (ii) (iv)	s least likely to Flagella Capsule	contain us	seful antigens?	
2	(i)	is causes Syphilis Entamoeba histolytica) Plasmodium	(ii) (iv)	Neisseria gon Treponema p			· · ·
3	(i)	arrhoea is not caused by Shigella dysenteriae Clostridium difficile	(ii) (iv)	Sreptococcus Salmonella en			
4	(i)	e simplest amino acid is Glycine) Asparagine	(ii) (iv)	Alanine Thyrosine			
5	(i)	nich of the following is requ Light Super oxygen radicals	ired for (ii) (iv)	High input of		nase enzyme?	
•		Ansv	ver AL l	B (15 Marks) L Questions y EQUAL Mar	rks	$(5 \times 3 = 15)$	
6	a I	Explain the any two method OR		rilization techn	iques.		
	b '	Write a note on general clas	sificatio	on of microbes.			
7	a Discuss microbial contamination and spoilage of fish. OR						
	b I	Demonstrate the process of		ilk preparation	•		
8		How do you control the mic OR Comment on Hepatitis B vii	\	isms? Write th	e importar	nce with an exa	mple.
9		Explain the Immobilization OR	of enzy	mes.			
-	b '	Write short notes on produc	tion of a	antibiotics.			
10	a (Comment on bacterial insec				and the second	
	b 1	Elucidate the microbial degr	radation	of Xenobiotic	s.		

22ZOP207/18ZOP07 Cont...

SECTION -C (30 Marks)

Answer ALL questions ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$

END

Elaborate the morphology of bacterial cell and notes on bacterial chromosomes. 11 a Discuss on the Indian Microbiology institution role in Healthcare. b Define Pasteurization and explain its significance in microbiology. 12 a Give a detailed account on Botulism and its causatives. b Describe air borne disease with any two examples. 13 a Which microorganism do causes Leprosy? Explain. b Demonstrate the production process of alcohol. 14 a Explain the production and application of microbial enzymes. b Describe the role of Ti plasmid in agriculture. 15 a Summarize about water pollution management used in municipal plants. b

Z-Z-Z