4.	Describe	in	detai	1 a	pplie	d as	pects	of
	microorgani	sms	in	anti	biotic	s and	1 vac	cine
	production.							

OR

Describe in detail bioleaching of ores. 12

5. Differentiate between :-

- (a) Homopolysacci, ides and heteropolysaccharides.
- (b) Simple and conjugated lipids. 4
- (c) Saturated and unsaturated fatty acids. 4

OR

Explain :—

- (d) Monosaccharides. 4
- (e) Derived Lipids.
- (f) Aromatic amino acids. 4
- Describe in detail different methods of presentation of statistical data.

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Second Semester B. Sc. (Part - I) Examination

2S - MICROBIOLOGY

(Microbiology, Biochemistry, Biostatistics and Computers)

P. Pages: 5

Time: Three Hours]

[Max. Marks: 80

Note: (1) All questions are compulsory.

- Draw neat and labelled diagrams wherever necessary.
- 1. (A) Fill in the blanks.
 - is the process of extraction of metals from its ores by living organisms.
 - (ii) ———— is the condition where microorganism, are not killed but its growth is prevented.
 - (iii) Simple lipids are made up of alcohol and ———.
 - (iv) The long form of ROM is ——. 2
 - (B) Choose the correct alternative.
 - (i) Tetracycline is ———
 - (a) Antiseptic
- (b) Disinfectant
- (c) Sanitizer
- (d) Antibiotics

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	(ii) T-4 bacteriophage have —	2.	Explain following:—				
	(a) Helical (b)	Binal		(a)	Structure of T-4 bacteriophage.	4	
	(c) Polyhedral (d)	Icosahedral		(b)	Viral cultivation in embryonated egg.	4	
	(iii) ——— are the examples of purine bases.			(c)	Detection of viral growth in cell culti	ire. 4	
	* * *	Adenine and			OR		
(C)	Thymine (c) Adenine and (d) Guanine	cytosine (d) Adenine and Thymine		(d)	Differentiate between lytic and lyso cycle.	genic 4	
		•		(e)	Structure of icosahedral viruses.	es. 4	
	(iv) The measures of central tendence are ——.		deficy		Lysogenic cycle.	4	
	(a) Mean (b)	Mean, Mode	3.	Explain :			
	(c) Median, and (d)			(a)	Gaseous sterilization.	4	
	Mean	and Median		(b)	Moist heat sterilization.	4	
	Answer in One sentence each			(c)	Sterilization by radiations,	4	
	Define.			OR			
	(i) Prophage(ii) Osmosis			(d)	Chemotherapeutic agents.	4	
					. •	4	
	(iii) Nucleoside			(e)	Dry heat sterilization.	4	
	(iv) Mode	4		(f)	Pasteurization.	4	

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OR

Describe	in	detail	different	measures	of	central
tendency.						12

7. (a) Discuss in brief input devices of computer.

4

(b) Describe in brief primary memory of Computer.

4

(c) Describe in brief internet.

OR

- (d) Discuss in brief output devices of computer.
- (e) Differentiate between RAM and ROM. 4
- (f) Discuss in brief secondary memory of computer.



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