Exam. Code: 0006 Sub. Code: 17577

Max. Marks: 33

2055

B.A./B.Sc. (General) Sixth Semester Industrial Microbiology (Elective)

IMB-601: Biostatistics, Tools and Techniques

Time allowed: 3 Hours

Time and	owed. 5 flours	lax. Marks. 33
NOTE:	Attempt <u>five</u> questions in all, including Question No. I which is c selecting one question from each Unit.	ompulsory and
<i>x-x-x</i>		
I.	Answer briefly:-	
	a) Tubular fermenter	
	b) Gel electrophoresis	
	c) Chi-square test	
	d) Membrane filter	
	e) DOS	(5×1)
	UNIT - I	
II.	a) Differentiate between exponential and logarithmic functions.	
	b) Write a note on analysis of variance transformation.	(4,3)
III.	a) Explain the Binomial and Poisson distribution.	
	b) Discuss mean, mode and median.	(5,2)
UNIT - II		
IV.	a) Elaborate on the principle and applications of fluorescence microsco	nv
14.	b) Discuss the application of affinity chromatography.	(5,2)
	b) Discuss the application of armity emomatography.	(3,2)
V.	a) Differentiate between paper and their layer chromatography.	
	b) Write a note on Immuno-electrophoresis.	(4,3)
<u>UNIT - III</u>		
VI.	Discuss the basic principle, functioning and usage of fermenter.	(7)
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VII.	a) Elaborate on the process of cell sorting using flow cytometer.	(F. 0)
	b) Describe the functioning of swing bucket rotor.	(5,2)
UNIT - IV		
VIII.	a) Differentiate between computer hardware and software with example	es.
	b) Explain the working of a solid state fermenter.	(4,3)
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IX.	Write notes on:-	
	a) LOTUS	
	b) Harward graphics	(7)