Exam.Code: 0006 Sub. Code: 0577

1058

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

IMB-601: Biostatistics, Tools and Techniques

Time allowed: 3 Hours

Max. Marks: 33

NOTE: Attempt <u>five</u> questions in all, including Question No. I which is compulsory and selecting one question from each Unit.

0.	ne question from each Unit. x-x-x	
I.	Answer briefly	
	a) Mean application of the south terrories and application of the state of the stat	
	b) Logarithmic functions	
	c) Principle of Thin layer chromatography	
	d) Distillation	
,	e) Computer control of fermentation	
	f) Isoelectric focusing	
	g) Applications of affinity Chromatography	
	h) DOS	
	i) Eye piece	(9x1)
	<u>UNIT – I</u>	
II.	a) Explain the basic idea of probability.	
	b) Differentiate between mode and median.	(3,3)
III.	a) Discuss the analysis of variance transformation.	
	b) Describe the different sampling methods.	(3,3)
	<u>UNIT – II</u>	
IV.	Explain the working and applications of Fluorescence Microscope.	
V.	a) Discuss the principle of gel filtration.	
	b) Describe the procedure used for paper chromatography.	(3,3)
	<u>UNIT – III</u>	
VI.	a) Discuss the working of a TEM.	

b) How is a flow cytometer used to measure cell size?

(3,3)

VII. Write a note on the principle and applications of Spectrophotomeler. (6)

UNIT-IV

VIII. a) Write a short note on Harward Graphics

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b) Discuss the working of a stirred lank Fermenter.

(3,3)

IX. Explain the principle operating characteristics of Fermenters.

(6)

x-x-x

Explain the working and applications of Fluorescence Microscope.