Sl. No.

No. of Printed Pages: 1



21BTH3C9L

M.Sc. III Semester Degree Examination, April/May - 2023 BIOTECHNOLOGY

Biostatistics and Bioinformatics

Time: 3 Hours Maximum			Marks: 70	
Note	()	each question cerries equal marks.	pulsory,	
	(t)	ii) Draw neat diagrams wherever necessary .		
1.	(a) (b)	Discuss in brief correlation and probability. Explain in one way ANOVA with a suitable example.	7x2=14	
2.	(a) (b)	Explain use of Box-& Dy: Whisker Plot, Bubble Plot and Growth chart data representation. Give an account on Z Statistics for two Independent samples.	t in 7x2=14	
3.	(a) (b)	Give an account on PFAM and PROSITE. Give an account on SCOP and CATH.	7x2=14	
4.	(a) (b)	Describe the nucleotide sequence submission in NCBI using BANKIT a SEQUIN. Explain Molecular viewers - Rasmol and Chime.	and 7x2=14	
5.	(a) (b)	Write a note on BLAST and FASTA. Discuss in brief pairwise and multiple sequence alignment.	7x2=14	
6.	Writ	te a detailed note on primary and secondary protein databases.	14	
7.	Exp	lain in detail substitution matrices and scoring matrices.	14	
8.	(a) (b) (c)	Write a note on INSDC. Give an account on sequence retrieval system. Write a note on Needleman Wunsch Algorithm.	5 5 4	