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21BTH3C9L

Sl. No.

M.Sc. III Semester Degree Examination, April/May - 2024 **BIOTECHNOLOGY**

Biostatistics and Bioinformatics

(NEP)

Time : 3 Hours

Maximum Marks: 70

Note: (i) Answer any five of the following questions with Question No.1 (Q 1) Compulsory, each question carries equal marks. (ii) Draw neat diagrams wherever necessary.

1. Analyze the following observations using One-way ANOVA.

Observation	Α	В	С	D
1	08	12	18	13
2	10	11	12	09
3	12	09	16	12
4	08	14	06	16
5	07	04	08	15

			Р.Т.О.	
7.	(a) (b)	Give an account of molecular phylogeny. Discuss on the molecular viewers.	7 7	
6.	(a) (b)	Discuss on the importance of Randomization and replications in biologica data analysis. Give an account of OMIM and mention its importance.	1 7 7	
5.	Give an account of BLAST and its types.			
4.	Write a detailed account on different of the sequence submission tools.			
3.	Give an account protein sequence database.			
2.	Describe the different types of data representations.			

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8.	(a)	Discuss on PROSITE and PRINTS.	5
	(b)	Discuss on Bootstrapping method.	5
	(c)	Give an account on Pairwise alignment methods.	4

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