

Paper: BI-515 and BI517 Introduction to Bioinformatics & Biological Databases

CO1 Students will be able to distinguish between various types of biological data

T1 Write a short note on Proteins, Lipids, Carbohydrates, Nucleic Acids

A1 Write any five biological experiments and their outputs

	Roll No	Test1	Assignment1	Total marks of attempted questions	Total Marks	Percentage	Score (3,2,1)	Target >= 60% (Y/N)
Marks			10	10	20	20		
	25201		9	9	18	20	90	3 Y
	25202		6	6	12	20	60	3 Y
	25203		8	9	17	20	85	3 Y
							Average	3

%age	score
>=60	3
50-59.9	2
40-49.0	1

CO2 Students will be able to experiment with biological data mining using various databases

PA1 Retrieve publications from PUBMED with title containing the term "Lung Cancer, published between between 2015 and 2018

PA2 Search an experimental 3D structure for Wheat Cyclophilin and download its sequence and 3D structure

	Roll No	Practical Assignment1	Practical Assignment2	Total marks of attempted questions	Total Marks	Percentage	Score (3,2,1)	Target
Marks				10	10	20	20	
	25201			10	9	19	20	95 3 Y
	25202			8		8	10	80 3 Y
	25203			8	9	17	20	85 3 Y
							Average	3

CO3 Students will be able to classify various Bioinformatics databases

A1 List various primary, secondary and specialized data bases

Q2 Identify the type of database from the given list of databases

	Roll No	Assignment1	Q1	Total marks of attempted questions	Total Marks	Percentage	Score (3,2,1)	Target
Marks				10	5	15		
	25201			9	5	14	15	93.33333333 3 Y

25202	9	4	13	15	86.66666667	3 Y
25203	8		8	10	80	3 Y
Average						3

CO4 Students will be able to know various database retrieval and deposition systems work

A1 Differentiate between SRS and ENTREZ

A2 Write short notes on Bankit, Seqin, Webin

	Roll No	Assignment1	Assignment2	Total marks of attempted questions	Total Marks	Percentage	Score (3,2,1)	Target
Marks		10	10			20		
	25201	9	9	18	20	90	3 Y	
	25202	7	7	14	20	70	3 N	
	25203	9	8	17	20	85	3 Y	
Average							3	

CO5 Students will differentiate between various formats of biological data and know which format is suitable for a particular application.

CA1 On the given sheet match the important features with the respective format

A1 Explain various sections of the PDB format

	Roll No	Class Activity 1	Assignment1	Total marks of attempted questions	Total Marks	Percentage	Score (3,2,1)	Target
Marks		10	10			20		
	25201	10	9	19	20	95	3 Y	
	25202	6	5	11	20	55	2 Y	
	25203	10	9	19	20	95	3 Y	
Average							2.666667	