

Q. No.	SECTION B ANSWER ANY EIGHT OF THE FOLLOWING IN 50 WORDS.	(8 X 2 =16)	CO	KL
21.	Define Bioinformatics		2	2
22.	List the branches of Bioinformatics		2	2
23.	Explain a domain?		2	2
24.	What is KEGG?		2	2
25.	Explain gap penalty.		2	2
26.	What is BLAST?		2	2
27.	Define clade.		2	2
28.	Outline the importance of FASTA?		2	2
29.	Define Motif finding.		2	2
30.	Specify the significance of PYMOL.		2	2
Q. No	SECTION C ANSWER THE FOLLOWING IN 200 WORDS.	(4 X 6 =24)	CO	KL
31.	Discuss the significance of NCBI. (or)		3	3
32.	Interpret the various sequence submission tools.		3	3
33.	Distinguish global alignment and local alignment. (or)		3	3
34.	Identify the importance of Neighbour Joining method.		3	3
35.	Compare and contrast CLUSTAL W and CLUSTAL Omega. (or)		4	4
36.	Analyse the search steps in BLAST.		4	4
37.	Differentiate the types of phylogenetic trees. (or)		4	4
38.	Elucidate the tool used for drug designing.		4	4
Q. No.	SECTION D ANSWER THE FOLLOWING IN 1000 WORDS. DRAW DIAGRAMS WHEREVER NECESSARY.	(2 x 20 = 40)	CO	KL
39.	Elucidate the various types of Biological databases. (or)		5	5
40.	Explain Sequence Retrieval System and add a note on any two Specialized database		5	5
41.	Explicate the sequence alignment and the steps involved in pairwise sequence alignment. (or)		5	5
42.	Summarise the methods used to construct phylogenetic trees with suitable examples.		5	5
