

and its applications?

2	Attempt the following:					
	(A)	Answer the following short questions: (ALL COMPULSORY)				
		(1)	Who first set up the PDB at Brookhaven?			
		(2)	What are the online submission tools for GenBank?			
		(3)	What is the full form of INSDC?			
		(4)	Give examples for protein visualization Tools?			
	(B)	Answer Any <b>One</b> of the following short questions:				
		(1)	Describe open-source model visualization tool			
		(2)	Define EST			
	(C)	Answer Any <b>One</b> of the following short questions:				
		(1)	Write in detail about literature database?			
		(2)	Define orthologous, paralogous, and xenologous.			
	(D)	Explain Any One of the following questions in detail:				
		(1)	Explain any five latest bioinformatics tools			
		(2)	ENA			
3	Atte	Attempt the following:				
	(A)	Answer the following short questions: (ALL COMPULSORY)		4		
		`	Different protein or gene in similar or relative function presents in same organism it call?			
		(2)	BLOSUM matrix is developed fromdatabase			
		(3)	What is TPA?			
		(4)	is process of identification of similarity present in the entire length of sequences.			
	(B)	Answer Any One of the following short questions: 2				
		(1)	Pairwise alignment			
		(2)	How to creating sub problems in dynamic			
			programming?			
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	(C)	Answ	er Any One of the following short questions:	3	
		(1) I	NCBI Genome Database		
		(2)	Difference between PAM and BLOSUM Matrix.		
	(D)	Explain Any <b>One</b> of the following questions in detail :			
		(1)	Write in detail about literature database		
			What are the sequence comparison methods available?		
4	Atte	Attempt following:			
	(A)	Answer the following short questions: (ALL COMPULSORY)		4	
		$(1)$ $\sqrt{}$	What is the full form of MAFFT?		
		(2) T	UniProt KB consist of and		
		7	BLAST developed by Stephen Altschul, Warren Gish, Webb Miller, Eugene Myers and David J. Lipman. (True / False)		
			search the sequence against the genome of specific organism.		
	(B)	Answ	er Any <b>One</b> of the following short questions:	2	
		(1)	Consensus sequences		
		(2)	Score		
	(C)	Answ	er Any One of the following short questions:	3	
		(1)	Substantiate EB-Eye is a sequence retrieval Tool		
		(2)	Database similarity search		
	(D)	Expla	ain Any One of the following questions in detail:	5	
		(1) I	Multiple Sequence Alignment		
		(2) I	Methods for protein secondary structure prediction.		

5	Attempt the following:			
	(A)	Answer the following short questions: (ALL COMPULSORY)		
		(1) is a way to judge the reliability of the branches in a tree.		
		(2) Definition: Node		
		(3) Full form of UPGMA		
		(4) TreeFam is a database composed of		
	(B)	Answer Any <b>One</b> of the following short questions:	2	
		(1) Unit of Phylogenetic tree construction		
		(2) What are nodes? Types of nodes?		
	(C)	Answer Any <b>One</b> of the following short questions:	3	
		(1) Why Smith-Waterman algorithm cannot have used for BLAST search?		
		(2) List out a few Phylogenetic tree construction software.		
	(D)	Explain Any <b>One</b> of the following questions in details:	5	
		(1) Explain distance based methods to construct phylogenetic tree.		
		(2) Phylogenetic tree topology and branch length.		