

YBC-15325

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(Contd.)

## B.Sc. (Part-III) Semester-V Examination

## **5S: BIOINFORMATICS**

## (Methods in Bioinformatics)

				(Methods in Dio		auties)		
Time: Three			Hours]			[Maximum Marks: 8	30	
Note :—(1)		All	questions are compulsory.					
		(2)	Draw well labelled diagram wherever necessary.					
1.	(a)	Fill	in the blanks:					
		(i)	is an information retrieval system of NCBI.					
		(ii)		_ is a protein information resor	latabase.			
		(iii) The FASTA format of sequence begins with symbol.						
		(iv)	Gen	Bank is maintained by			2	
	(b)	Cho	ose t	ose the correct alternative :				
	(i)			All are nucleotide sequences databases except :				
			(a)	Swiss-Prot	(b)	EMBL		
			(c)	DDBJ	(d)	GenBank		
	(ii)			Phylogenetic relationship can be shown by:				
			(a)	Dendrogram	(b)	GenBank		
			(c)	Data tool	(d)	Tendrogram		
		(iii)	BLA	AST program is used for:				
			(a)	DNA sequencing	(b)	Sequence alignment		
			(c)	Basic sequence searching	(d)	DNA barcoding		
		(iv)	Which of the following is protein tertiary structure prediction method?					
			(a)	BLAST	(b)	SRS		
			(c)	Homology modeling	(d)	HMM	2	
	(c)	Answer in one sentence each:						
		(i)	Wha	at is EST ?				
		(ii)	ii) What is RDBMS?					
(iii		(iii)	) What is genome ?					
		100		at is sequence alignment?			4	
2.	(a)		What is database? Types of databases.					
	(b)	8 68					4	
	(c)	Des	cribe		4			
OR								

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(f) Describe BLAST string matching in Bioperl.

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