## 21MBL1S1LP

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## M.Sc. I Semester Degree Examination, April/May - 2024 Skill Enhancement Courses (SEC)

## **MICROBIOLOGY**

**802C**: Bioinformatics for Microbiology

Tim	ne : 1	Hour		Maximum Marks : 30					
1.	The	Term Bioinformatics was coined	by						
	(A)	J.D. Watson	(B)	Pauline H Ogeweg					
	(C)	Margaret Dayhoff	(D)	Frederic Sanger					
2.	Prot	ein database is a :							
	(A)	Information of proteins	(B)	Function of proteins					
	(C)	Introduction of proteins	(D)	Structure of proteins					
3.	Gloł	oal alignment is based on :							
	(A)	Sequences which are of same lea							
	(B)	Sequences which are suspected to	e similarity						
	(C)	Sequences which are dissimilar							
	(D)	All of the above							
4.	CEN	ISOR tool is used for :							
	(A)	Masking symbols	(B)	Cutting sequence					
	(C)	Identifying sequence	(D)	Editing sequence					
5.	Clus	stal W is used for :							
	(A)	Single sequence alignment	(B)	Homologous sequence alignment					
	(C)	Multiple sequence alignment	(D)	None of the above					
6.	FAS	TA was developed by :							
	(A)	Watson and Crick	(B)	Lipman and Pearson					
	(C)	Needleman-Wunsch	(D)	None of the above					
7.	Anti	iviral molecule to collect database							
	(A)	Avpdp	(B)	DRAMP					
	(C)	CRAMP	(D)	Gene Bank					
8.	Mol	Molecular modelling and docking is used for:							
	(A)	Function based drug design	(B)	Molecule based drug design					
	(C)	Structure based drug design	(D)	None of the above					

9. Micro array technique is used for:					1					
	(A) (C)	Interpreting data of only DNA Interpreting data of only RNA	(B) (D)	Interpreting data of All of the above	only p	rotein				
10.	Stud	y of Genomics is :								
	(A)	Study of genes and their interacti								
	(B)	Study of gene function								
	(C)	Study the structure of gene								
	(D)	None of the above								
11.										
	(A)	16 sRNA	(B)							
	(C)	18 sRNA	(D)	None of the above						
12.	Prim	er is :								
	(A)	Short single-stranded nucleic acid	d							
	(B)	÷								
	(C)	Double-stranded nucleic acid								
	(D)	All of the above								
13.	Expa	sy:								
	(A)	Enzyme pathway analysis system	ı							
(B) Expert protein analysis system										
	(C)	Endonuclease protein analysis sy	stem							
	(D)	None of the above								
<b>14</b> .	Computer simulation refers to :									
	(A)	Dry lab (B) In silico		(C) Wet lab	(D)	In vitro				
<b>15.</b>	Expand PDB:									
	(A)	Protozoan Database	(B)	Peptide Database						
	(C)	Protein Database	(D)	Protein-peptide Dat	abase					
16.	KEG	G:								
	(A)	Kyoto Encyclopedia of Gene and Genomes								
	(B)	B) Keto Encyclopedia of Gene and Genomes								
	(C)	nes								
	(D)	(D) None of the above								
17.	The t	The term "transcriptomics" refers to the study of :								
	(A)	DNA sequences	(B)	Protein structures						
	(C)	RNA molecules	(D)	Genetic mutations						



18.	The (A) (C)	study of the three Proteomics Structural biolog		nsional stru	cture (B) (D)	Geno	oteins is known a omics scriptomics	s:	
19.	Smal (A)	ll cDNA sequence SNPs		represents a ESTs	uniq	_	gment of an active SnRNAs	e gene (D)	
20.	Gene (A)	es of same species Ortholog	s, simi (B)	larly related Synteny	d to ea		her are Paralog	 (D)	Microarray
21.	Wha (A) (C)	t is microbiome ? A group of para A tiny bio-dome			(B) (D)		o-organism in an	envir	onment
22.	Whio	ch of the following BLAST	g is ar (B)	n example o RasMol	f Hon	nology (C)	and similarity to EMBOSS	ool ? (D)	PROSPECT
23.	<ul> <li>Which of the following are not the application of bioinformatics?</li> <li>(A) Drug designing</li> <li>(B) Data storage and management</li> <li>(C) Understand the relationship between organisms</li> <li>(D) None of the above</li> </ul>								
24.	The (A)	stepwise method : Flowchart	for sol (B)	lving proble Algorithm		_	outer science is ca Procedure	ılled a (D)	s : Sequential desigr
25.	In w (A)	hich year did the 1988	SWIS (B)	SPROT pro 1985	tein se	equen (C)	ce database begir 1986	n ? (D)	1987
26.	Iden (A) (C)	tification of drugs Genomics Pharmacogeneti		igh genomi	c stud (B) (D)	Phar	alled as : macogenomics minformatics		
27.	NCBI stands for : (A) National Centre for Biology (C) National Centre for Biochemistry			(B) (D)		onal Centre for B e of the above	iotech	nology	
28.	RNA (A)	copies of active j Transcriptome	-	n-coding ge Genomics	nes ar		ed : Genetics	(D)	Evolution
29.	ANN (A) (C)	N refers to : Asian news neto Artificial newton		vork	(B) (D)		icial neural netw he above	orks	
30.	Mole (A)	ecular visualizatio Chimera	n soft (B)	ware is : Primer		(C)	Python	(D)	C <sup>++</sup>

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