ŞEAT No	No. of Pri	nted Pages : 2	
SARDAR PATEL UNIVERS DATE -03/04/17 DAY- MON Course- US06CGEN04 CLASS- T.Y.B.Sc - VI Sen TOTAL	VDAY T SUB	TEXAMINATION IME 10:00 TO 1:00 pm JECT: GENETICS -Bioinformatics	
Q1- Answer the following Multiple Choice	e Questions:	[10]	
1)Which one of the following is a primary pr a) SWISS-PROT b) EMBL	rotein database? c) DDBJ	d) NCBI.	
2) The brain of any computer system is a) ALU b) Memory c) CPU d) Control	unit		
<ul><li>3) In PowerPoint, each page is called</li><li>a) A worksheet</li><li>b) A text page</li></ul>	c) A slide	d) A presentation	
4) Entrez, a life science search engine used to a) SWISS-PROT. b) EMBL	o search across dat c) DDBJ	abases is maintained by d) NCBI.	
	gion in the sequences obal alignment altiple alignment		
6) Introns are encoded by conserved region at 5 a)GT-AU b) AG-GT	' and 3' end are c) GT- AG	d) CG-GC	
7) compares protein sequence again a) BLASTp b) BLASTn	st protein database c) BLASTx		
8) ORF is a) open reading frame b) open research for	m. c) online rese	arch form d) none	
<ul><li>9) Sulphur containing amino acids are</li><li>a) Cysteine and methionine b) Methionine and</li><li>d) Cysteine and serine</li></ul>	d threonine c) Cyste	ine and threonine	
<ul><li>10) Secondary database is</li><li>a)Data collected from scientist</li><li>c)Data collected from public</li></ul>	b) modified data of	of primary database	
Q2- ANSWER IN BRIEF (Attempt any	v 10) (each carry	y 2 marks)	[12]
<ol> <li>Differentiate between RAM &amp; ROM.</li> <li>Give the importance of Internet in Bio</li> <li>Enlist any 4 databases that contain sec</li> <li>Discuss the importance of biological of</li> </ol>	quence information. databases in biology		
5) Differentiate local & global alignme	пі. <b>- 1</b> —	(PT	<b>5</b> )

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6)	Enlist any 5 useful sites of Bioinformatics.	
7)	What is Unix Operating system.	
8)	Explain tertiary structure of protein.	
9)	Diagrammatically explain the structure of Eukaryotic gene.	
10)	Enlist any 6 databases of NCBI.	
11)	How PubMed central differ from PubMed?	
12) Give the basic concept of Chou Fasman mehod.		

Q3-a) Explain structural organization of computer diagrammatically. Q3- a) Discuss different generations of computer.  OR	[05] [05]
Q3 - Elaborate in detail MS-OFFICE software and its different applications.	[10]
Q3 - Elaborate in detail wis-O1 1 feb software and its different applications.	[10]
Q4- What are databases? Classify it with examples.  OR	[10]
Q4- a) Clarify the concept, scope & applications of Bioinformatics.	[05]
Q4- b) Simplify NCBI data model and its various databases.	[05]
Q5- Explain phylogenetics analysis and tool related to it.	[10]
OR ·	
Q5- a) Describe BLAST, its type & importance.	[05]
Q5- b) Explain Shareware software & how it is differ from freeware software.	[05]
Q6- What is gene prediction? Elaborate any two methods in detail. OR	[10]

[10]

Q6- What is structure prediction? Elaborate any two methods in detail.