[50] SEAT NO.

 $^\circ$ No. of Printed Pages ; 2

SARDAR PATEL UNIVERSITY EXTERNAL EXAMINATION

Saturday- DAY,

DATE - 24/11/18

TIME:02:00-05:00 P.M.

Course: US03CBNF04

SUBJECT: Basics in Bioinformatics

CLASS-S.Y.B.Sc SEMESTER-III

10]Explain PDB ID.

11] Give the important features of database PDB.

MAX. MARKS- 70

Q1- Select the correct from the follo 1)It is a simple type of Database bas a) Flat file indexing system	ed on ordering and indexing. c) Object oriented database	[10]
b) RDMS	d) None	
2) Who coined the term Bioinforma	tics and when?	
a) PaulienHogeweg, 1979	c) Dr Margaret Oakley Dayhoff, 197	76.
b) Robert Ledley, 1978	d)David W Mount, 1977	
3) Abbreviation for MeSH is		
a) Medical Social Headquater	 c) Medical Subject Heading 	
b) Medicine Subject Heading	d) Medical Similar Heading	
4) PubMed is a free database access	ing primarily information from	
a)Genbankb) Medline c) Goo		
5) Which one of the following is a p.	rimary protein database?	
a) PIR	c) EMBL.	
b) DDBJ	d) NCBI.	
6) Which server is used to study cla	ssification of three-dimensional prote	in structures?
a) DALI b) FSSP	c) SCOP d) NCBI	
7) The names and phylogenetic line	ages of organisms present in	
a) MeSH	c) Taxonomy	
b) ÓMIM	d) PMC	
8) NCBI's molecular modeling data	ibase is called	
a) PDB b) MMDB	c) MSD d) BMRB.	
9) Tr EMBL contains information:	about:	
a)Protein sequence	c) Nucleotide sequence	
b)Protein classification	d)Protein structure	
10) The identification of drugs thro	,	
20) The identification of drugs thro	es c) Pharmagenomics d) Phrmacogeno	etics
a) Genomics b) Cheminformatic	s c) Filannagenomics d) Filandeogen	ctics
Q2—Answer the Short Questions: (a	ttempt any TEN)	[20]
1] Explain the significance of interne	t in bioinformatics.	
2]Discuss the importance of search e	noine	
3]Describe the role of database in bio	nlogv	
4]Differentiate between PubMed and	LPMC (PubMed central).	
5] Differentiate between EMBL and		
6] Give the important features of Sw		
7] Enlist any four bioinformatics data	ahases	
8] Give the abbreviation of OMIM,	NCRL SCOP MMDB	
9] What information is present in dat		
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Q3 (a) What is bioinformatics. Discuss in brief the history of bioinformatics. [6] (b) Discuss few important web-sites in Bioinformatics. [4] Q3 What is a freeware software and how it differ from shareware software explain with examples. Q4 (a)Explain biological databases in detail and discuss primary and secondary databases with [6] examples. [4] Q4 (b) Explain Flat file database system. Q4 Explain different types of biological databases and its importance in bioinformatics. [10] [10] Q5 Explain Genbank database format. OR [10] Q5 Explain Swiss Prot database format. [5] Q6 (a) Explain SCOP Database in detail.

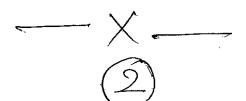
12] Differentiate freeware and shareware software.

(b) Write PDB Format.

Q6 (a) Explain CATH database.

(b) Write about MMDB Database.

OR



[5]