No. of Printed Pages: 2.

SARDAR PATEL UNIVERSITY **EXTERNAL EXAMINATION**

DAY-Tuesday, DATE - 19/11/13
TIME:02:30- 05:30 P.M. Course: US03CBNF04
SUBJECT: Basics in Bioinformatics

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

MAX. MARKS- 70

O1- Select the correct fr 1) It is a simple type of D a) Flat file indexing b) RDMS	atabase based on		-	[10]	
2) The sequence of the fir a) Bovine insulin b) Myosin	rst protein analys	sed by F.Sanger was c) Protease d) Actin			
3) Abbreviation for MeSFa) Medical Social Fb) Medicine Subject	Ieadquater	c) Medical Subject He d) Medical Similar He			
4) PubMed is a free datab a)Genbank b) Google	ase accessing pri	marily information from c) Medline d) Internet			
5) Online Mendelian Inheritance in Man (OMIM) is					
a)Software b) Search Engine	c) database that catalogues all the known diseases & genes d) database that catalogues the entire known chromosome.				
6) Fasta format starts from a) < b)>	n the sign-	c) (a) d) *			
7) The names and phyloge a) MeSH b) OMIM	enetic lineages of	organisms present in c) Taxonon d) PMC	ny ,		
8) The abbreviation for PIR is a) Protein Information Resource b) Protein Information Research c) Protein Institute Resource d)Protein Institute Research					
9) Tr EMBL contains infor a)Protein sequence b)Protein classification		c) Nucleotide sequend)Protein structure	nce		
10) The identification of drugs through genomic study a) Genomics b) Cheminformatics c) Pharmagenomics d) Phrmacogenetics					

[P.T.O]

1] 2]II 2]II 3]II 4]II 5] 1 6] 0 7] 1 8] 9] 1	Explain the significance of internet in bioinformatics. Discuss the importance of search engine. Describe the role of database in biology. Differentiate PubMed and PMC (PubMed central). Differentiate EMBL and TrEMBL. Give the important features of Swiss-Prot. Enlist any four bioinformatics databases. Give the abbreviation of OMIM, PIR, SCOP, MMDB. What information is present in database OMIM. IExplain PDB ID.	[90]	
	Give the imprtant features of database PDB. Differentiate PDB and Swiss PROT database.		
O2	3 (a) What is bioinformatics. Discuss in brief the history of bioinformatics.	[7]	()
		[6]	
Ų.	3(b) Discuss few important websites in Bioinformatics.	[4]	
	OR What is a freeware software and how it differ from shareware software examples.	plain with [10]	
	(a)Explain biological databases in detail and discuss primary and secondar with examples.(b) Explain Flat file database system.	v databases [6] [4]	
O4	OR Explain different types of biological databases and its importance in bioint	formatics.	
Q5 Explain Genbank database format.		[10] [10]	
	OR	-	
Q5	Explain Swiss Prot database format.	[10]	()
Q6 (a) Explain SCOP Database in detail.			
	(b) Write PDB Format.	[5]	
Q6	OR (a) Explain CATH database. (b) Write about MMDB Database.	[5] [5]	, and the second

XXXXXXXXXXX