C.U.SHAH UNIVERSITY
Summer Examination-2018

Subject Name : Basics of Bioinformatics and Biostatistics
Subject Code : 4SC04BBB1   **Branch:** B.Sc. (Microbiology)

Semester : 4   **Date : 01/05/2018**   **Time : 10:30 To 12:00**   **Marks : 35**

Instructions:
  (1) Use of Programmable calculator & any other electronic instrument is prohibited.
  (2) Instructions written on main answer book are strictly to be obeyed.
  (3) Draw neat diagrams and figures (if necessary) at right places.
  (4) Assume suitable data if needed.

Q-1		**Attempt the following questions:**	**(07)**
	a)	ExPASy stands for?	(1)
	b)	Define : Bioinformatics	(1)
	c)	Give example of Tertiary Databases.	(1)
	d)	Give full form of DDBJ.	(1)
	e)	What is Alignment?	(1)
	f)	AUG codes for _____.	(1)
	g)	Define : Databank	(1)

Attempt any Two questions from Q-2 to Q-5

Q-2		**Write notes on:**	**(14)**
	a)	BLAST and FASTA.	**(7)**
	b)	Nucleotide Databases.	**(7)**
Q-3		**Attempt all questions**	**(14)**
	a)	Explain,- Source of Data, Variable and its types.	**(5)**
	b)	Write a note on applications of Bioinformatics.	**(5)**
	c)	Calculate – Mean, Median, Mode and Range of the Data Given… 5.4, 2.5, 7.5, 8.5, 9.5, 10, 2.5, 15, 12, 4.5.	**(4)**
Q-4		**Attempt all questions**	**(14)**
	a)	Give Full forms of DDBJ, EMBL, OMIM, SQL, PAGE.	**(5)**
	b)	Write a note on applications of Biostatistics.	**(5)**
	c)	Calculate – Mean, Standard Deviation, Variance and Median of the Data Given… 10, 15, 45, 65, 95, 25, 35, 75, 80.	**(4)**
Q-5		**Write notes on:**	**(14)**
	a)	Local and Global Alignment.	**(7)**
	b)	Protein Databases.	**(7)**