Enrollment No: _____ Exam Seat No:_____

C.U.SHAH UNIVERSITY

Winter Examination - 2018

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

Semester : 4 **Date : 25/10/2018** **Time : 10:30 To 12:0** **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) NCBI stands for? (1)

b) Define : Biostatistics (1)
c) Give example of primary Databases. (1)
d) Give full form of EMBL. (1)
e) What is DBMS? (1)
f) AUG codes for _____. (1)
g) Define : Database. (1)

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

Q-2 **Attempt all questions** **(14)**
a) Write about different types of variables in Statistics. **(7)**
b) Brief note on Local and Global Alignment. **(7)**

Q-3 **Attempt all questions** **(14)**
a) Write a note on applications of Bioinformatics. **(5)**
b) Note on Nucleotide Databases. **(5)**
c) Calculate – Mean, Median, Mode and Range. **(4)**
10, 15, 25, 55, 45, 16, 15, 50.

Q-4 **Attempt all questions** **(14)**
a) Write a note on applications of Biostatistics. **(5)**
b) What is BLAST? Explain with its types. **(5)**
c) Calculate – Mean, Median, Mode and Range. **(4)**
12, 18, 20, 16, 15, 18, 20, 22. 25.

Q-5 **Attempt all questions** **(14)**
a) Short not on Literature Databases. **(7)**
b) Write about different methods of presentation of data. **(7)**