

Enrollment No: _____

Exam Seat No: _____

C. U. SHAH UNIVERSITY

Summer Examination-2022

Subject Name: Basics of Bioinformatics and Biostatistics

Subject Code: 4SC04BBB1

Branch: B.Sc. (Microbiology)

Semester: 4

Date: 05/05/2022

Time: 11:00 To 12:30

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) What is the difference between Data and Information? (1)
- b) What is Histogram? (1)
- c) Define:- Database (1)
- d) Give the full form of DDBJ. (1)
- e) What are uses of Biostatistics? (1)
- f) What is Bioinformatics? (1)
- g) Give the full form of BLASTA (1)

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

Q-2 Attempt all questions (14)

- a) Briefly write a note on methods of Pair wise Alignment. (07)
- b) Write down the difference between BLASTA & FASTA.(Any 7 Points) (07)

Q-3 Attempt all questions (14)

- a) Write a detailed note on any two Bioinformatics Center. (05)
- b) Find the Mean , Mode & Median of given data (05)
1,2,3,4,5,5,5,1,3,1
- c) Write down the difference between Global and Local alignment.(Any 4 Points) (04)

Q-4 Attempt all questions (14)

- a) Find out the mean deviation for given data value 5, 3, 7, 8,4,9. (07)
- b) Write down a brief note on applications of Bioinformatics. (05)
- C) What are the limitations of biostatistics? (any 3) (02)

Q-5 Attempt all questions (14)

- a) Write a detail note on Nucleotide Database. (07)
- b) The following are the numbers of jobs a sample of 6 peoples applied for: 17,15,23,7,9,13 (07)
Calculate the mean, variance, and standard deviation for these values.

