

Roll No.7276560.....

94081

**B. Sc. Bio-Tech 5th Sem. (N. S.)
Examination – November, 2017**

BIO-INFORMATICS

Paper : BT-501

Time : Three Hours] [Maximum Marks : 40

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Question No. 1 is compulsory. Students should attempt four others questions i. e. one from each Unit.

1. Write short note on the following : $\underline{2} \times 5 = 10$

(a) Unigene

(b) Microarray

(c) Substitution Matrices

(d) Data Submission

(e) Multiple sequence alignment.

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P. T. O.

UNIT – I

2. Write a note on sequence information resources. 7.5

~~3.~~ Write a note on GenBank. 7.5

UNIT – II

4. Write a note on PDB database. 7.5

~~5.~~ Write a note on data generation by PCR. 7.5

UNIT – III

~~6.~~ Write a note on phylogenetic analysis. 7.5

7. Write note on BLAST and its result interpretation. 7.5

UNIT – IV

8. Write a note on tools available for protein and DNA sequences submission. 7.5

~~9.~~ Write a note on Entrez and SRS. 7.5