D 73707 **(Pages : 2)** **Name**.....

Reg. No.....

FIRST SEMESTER B.Sc. DEGREE (SUPPLEMENTARY/IMPROVEMENT) EXAMINATION, NOVEMBER 2014

(UG-CCSS)

Core Course—Biotechnology

BT 1B 01—BIOINFORMATICS

Time : Three Hours Maximum : 30 Weightage

I. Objective Type Questions. Answer *all* twelve questions :

A. Name the following :-

1 Secondary sequence database.

2 One major application software.

3 Academic service.

4 Educational software.

5 Protein database.

6 Algorithm for Local alignment.

B. Expand the following :-

7 URL.

8 ORF.

9 BLAST.

10 INFLIBNET.

11 BRNET.

12 EST.

(12 x ¼ = 3 weightage)

II. Short answer type questions. Answer *all* nine questions :

Write short notes on :

13 License.

14 Guarantee.

15 Software.

16 DSL.

17 Software piracy.

18 CDNA libraries.

19 NCBI.

20 Ensemble.

21 Wireless technology.

(9 x 1 = 9 weightage)

III. Short essay or Paragraph questions. Answer any *five* questions from seven :

22 How is DNA sequences ?

23 Local alignment and global alignment.

24 What is bootstrap analysis ?

25 Redundant and non-redundant databases.

26 Microarrays.

Turn over

27 Artificial intelligence.

28 What are the feature of the modern PC ?

(5 x 2 = 10 weight

IV. Essay questions. Answer any *two* questions from three :

29 Compare maximum likelihood and maximum parsimony and distance methods of phyloge construction principles.

30 Explain the different methods of connecting to internet and give five important domain names.

31 Explain new opportunities and new threats in IT industry.

(2 x 4 = 8 weightage)