

C 4700

(Pages : 2)

Name.....

Reg. No.....

SECOND SEMESTER M.Sc. DEGREE EXAMINATION, JUNE 2016

(CUCSS)

General Biotechnology

GB2C4—BIO-STATISTICS AND BIO-INFORMATICS

(2010 Admissions)

Time : Three Hours

Maximum : 36 Weightage

Section A (Very short answer type)

*Answer **all** questions, each with weightage 1.*

1. **What is BLAST ?**
2. **What is database ?**
3. **What is local alignment ?**
4. What is macro ?
5. What is GENbank ?
6. What is sample ?
7. What is kurtosis ?
8. What is Standard deviation ?
9. What is histogram ?
10. What is Regression ?

(10 x 1 = 10 weightage)

Section B (Paragraph Type/Short Answer Type)

*Answer any **seven** questions, each with weightage 2.*

11. Describe the role of internet in reference search.
12. Explain sequence alignment.
13. Define regression and explain linear regression analysis.
14. Explain stacks and queues.
15. What are the advantages of Data base management system ?
16. Describe the important features of MS Excel.
17. Briefly explain computer oriented statistical techniques.

Turn over

18. Define Range. Find out range of the following series

(a) 62, 70, 89, 15, 78, 86, 58.

(b) 19, 19.5, 18.2, 13, 16, 21, 23.

19. Describe briefly normal distribution and normal distribution curve.

20. Explain ANOVA.

(7 x 2 = 14 weightage)

Section C (Essay type)

Answer any two questions, each with weightage 6.

21. What are the different parameters required for primer designing ? Add a note on primer design tools.
22. Define and explain correlation and correlation coefficient with examples.
23. Explain about computer programming.

(2 x 6 = 12 weightage)