25082

M.Sc. DEGREE EXAMINATION, APRIL 2015.

SECOND SEMESTER

Biotechnology

Paper II – COMPUTER APPLICATIONS AND BIOSTATISTICS

Time : Three hours Maximum : 75 marks

(No additional sheet will be supplied)

PART A — (5 × 3 = 15 marks)

Answer any FIVE questions.

Each question carries 3 marks.

Each answer should not exceed 1 page

1. What are the component of CPU.

2. What are the importance and uses of operating systems.

3. What is the scope and importance of bioinformatics.

4. List the databases and search tools used in bioinformatics.

5. What is frequency distribution?

6. Differentiate between raw data and group data.

7. What is Null hypothesis?

8. What is tests of significance?

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PART B — (4 × 15 = 60 marks)

Answer ALL questions.

Each question carries 15 marks.

Each answer should not exceed 6 pages.

9. (a) Explain the classification of computers based on technology usage and working principle.

(b) Discuss about primary and second storage devices in detail.

Or

10. (a) Explain the various components of a computer with a block diagram.

(b) Discuss about DOS and Windows.

11. Explain the pair wise and multiple alignments using BLAST.

Or

12. Explain about the Abinitio methods for determining protein structure.

13. Explain normal distribution and state its properties and applications in biostatistics.

Or

14. Explain the following

    (a) Raw data

    (b) Group data

    (c) Construction of frequency distribution

15. Discuss about the mean, standard deviation and coefficient of variation.

Or

16. Discuss about one way and two way classification.

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