

45022

M.Sc. DEGREE EXAMINATION, APRIL 2015.

FOURTH SEMESTER

Biochemistry

Paper II — TECHNICAL WRITING, BIostatISTICS AND BIOINFORMATICS

Time : Three hours

Maximum : 75 marks

(No additional sheet will be supplied)

SECTION A — (5 × 3 = 15 marks)

Answer any FIVE questions.

Each question carries 3 marks.

Each answer should not exceed 2 pages.

1. Critical comments on writing
2. Experimental design and collection of results
3. Correlation of measurements
4. Measures of dispersion
5. Types of operating systems
6. Graphic devices
7. Sequence analysis
8. NCBI.

SECTION B — (4 × 15 = 60 marks)

Answer ALL questions.

Each question carries 15 marks.

Each answer should not exceed 6 pages.

9. Explain in detail about preparation of a research proposal.

Or

10. Give a detailed account on writing various types of letters.

11. Mention in detail about statistical hypothesis testing using Student's t- test.

Or

12. Explain in detail about measures of central tendency.

13. Write in detail about network operating systems.

Or

14. Write notes on :

- (a) Storage devices
- (b) Programming languages.

15. Explain the retrieval and analysis of a gene sequence using various databases and search tools.

Or

16. Write notes on :

- (a) Proteomics
- (b) Image analysis.

