

NOVEMBER/DECEMBER 2018

**MAM23 — BIOINFORMATICS AND
BIOSTATISTICS**

Time : Three hours

Maximum : 75 marks

SECTION A — (5 × 6 = 30 marks)

Answer ALL questions.

1. (a) Write short notes on

(i) Linux.

(ii) Operating systems.

Or

(b) What is a web browser? List out the commonly used web browsers.

2. (a) Give an account on SWISS-PROT.

Or

(b) Summarize the key steps in building a multiple alignment.



3. (a) Describe the methods to study proteomics.

Or

- (b) Define genomics and list its types.

4. (a) Explain about the prediction of three dimensional structure of proteins.

Or

- (b) Write a critical note on molecular visualization of protein structure.

5. (a) What is mode? List out the merits and demerits of it.

Or

- (b) What is regression analysis? Explain its types.

SECTION B — (3 × 15 = 45 marks)

Answer any THREE questions.

6. Give the classification of biological databases. Add a note on the properties of databases.
7. Describe the primary methods of producing pairwise sequence alignment.

8. Give a detailed account on proteomic databases.

9. Explain the various methods available for predicting the structure of proteins.

10. Find out the correlation co-efficient for the following data.

Age	43	55	36	63	49	60	38	72
Blood Pressure	140	150	116	150	143	155	116	158

