M.Sc.-Biotech.-IS-(1.4)

2015

(January)

Full Marks: 40 Time: 2 Hours

Answer any **five** questions All questions carry equal marks

(BIOINFORMATICS AND BIOSTATISTICS)

- Describe the various functions and types of operating systems used in computer today.
- 2. Write short notes on the following:
 - (a) Search Engine
 - (b) Type of Network
- Describe in detail the NCBI data model mentioning its salient features and significance in relation to bioinformatics applications.
- 4. Write short notes on the following:
 - (a) Molecular Visualization tools
 - (b) Biomedical Literature databases.
- Describe in detail the different types of substitution matrices used during sequence alignments.
- Describe the commonly used measures of central tendency and dispersion in biological analysis with suitable examples.
- 7. Write short notes on the following:
 - (a) Laws of probability
 - (b) Chisquare test of significance.
- 8. Differentiate between:
 - (a) Ras Mol and Tas Top
 - (b) Local alignment and Global alignment.