



### SECTION-B

- Q2. Explain nature of data entries and organization of nucleotide databases.
- Q3. Differentiate between PAM and BLOSUM matrices.
- Q4. Discuss in brief the hierarchical and shotgun sequencing strategies.
- Q5. Describe the theories and importance of MALDI-TOF and gel filtration chromatography.
- Q6. Define the term Bioinformatics. What are its goal and scopes in biological research?

### SECTION-C

- Q7. Write illustrated notes on :
- (a) Molecular markers
  - (b) SNP disease database
- Q8. Explain mass spectrometry based methods for protein identification.
- Q9. Compare methods and applications of pair wise and multiple sequence alignment.

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**