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Total No. of Pages : 02

Total No. of Questions : 09

**B.Sc.(BT) (2014 to 2017) (Sem.-1)**  
**COMPUTER APPLICATION IN BIOTECHNOLOGY**  
**Subject Code : BSBT-107**  
**M.Code : 47024**

Time : 3 Hrs.

Max. Marks : 60

**INSTRUCTION TO CANDIDATES :**

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

**SECTION-A****1) Answer briefly :**

- a) Analogue Computers
- b) Online software
- c) Magnetic Tape-data representation
- d) Optical disks
- e) Joystick
- f) Soft Copy
- g) Citations
- h) NCBI
- i) Plotters
- j) Phylogram

### SECTION-B

2. Explain the process of Multiple Sequence Alignment.
3. What are input devices?
4. Describe source data automation.
5. What are Bibliographic databases?
6. Explain the Genbank format.

### SECTION-C

7. Explain the different types of hardware and softwares.
8. Describe the different types of phylogenetic analysis.
9. Write a note on NCBI data model.

**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.**