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Total No. of Questions: 18

B.Tech (BT) (Sem.-5)
BIOINFORMATICS

Subject Code: BTBT-503-18 M.Code: 78237

Time: 3 Hrs. Max. Marks: 60

INSTRUCTION TO CANDIDATES:

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

SECTION-A

Answer briefly:

- What is flat file format?
- 2) What are secondary databases?
- Give brief account on GenBank.
- 4) What is Global Alignment?
- 5) What is CATH?
- 6) What is E-Value?
- Name any two MSA tools.
- 8) What is FASTA?
- Give significance of Phylogenetic analysis.
- Define Block based alignment.

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SECTION-B

- Differentiate between primary and secondary databases.
- 12) What is the difference between local and global alignment?
- Explain Dot matrix method.
- 14) What is Needleman-Wunsch algorithm?
- Explain clustering based methods of phylogenetic tree construction.

SECTION-C

- Explain different types of substitution matrices.
- Explain Blast word algorithm in detail.
- 18) What is phylogenetic analysis? Explain various tree terminologies.

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.

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