



RAN-2403001301041002

B.Sc. (NCF-NEP) (Biotechnology) (Sem. I) Examination March - 2026

BT-MDC-102 : Introduction to Bioinformatics And Databases

Time: 2 Hours]
[Total Marks: 50

સૂચના : / Instructions (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી. Fill up strictly the above details on your answer book (2) Figures to the right indicate full marks of the question. (3) Draw neat and labeled diagrams whenever necessary.	Seat No.: Student's Signature
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Q.1 Short question/One word answer (Any Ten) 10

1. What is PubMed?
2. A computer gathers data, processes it, outputs the data or information, and _____ the data or information.
3. Write full form: ExPASy
4. The _____ is the program that manages the hardware of the computer system, including the CPU, memory, storage devices, and input/output devices.
5. Define: Genomics
6. All computer programs for a machine are called _____
7. _____ are the fastest and most expensive computers.
8. Write one metabolic pathway databases.
9. All physical components of computer are part of the _____
10. The program and languages used by the computer are called _____ .
11. Write full form: NCBI
12. What is RASMOL?

Q.2 Short note Any Two of the following: (10)

1. Motherboard
2. Application of Computer with its advantage and disadvantage.
3. Laser Printer as Non-impact Printer.

Q-3 Short note Any Two of the following: (10)

1. Decimal Number System.
2. Binary and Octal Number System.
3. Relationship between Hardware and Software.

Q-4 Short note Any One of the following: (10)

1. Application of Bioinformatics.
2. Structure Visualizing Tools

Q-5 Short note Any One of the following: (10)

1. Primary Nucleotide Sequence Databases
2. Protein Structure Classification Databases