



RAN-2403001301041002

BSc. (NCF-NEP) (Bio Technology) (Sem. I) Examination November - 2025

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. (3) Draw neat and labeled diagrams wherever necessary.	Seat No.: <table border="1"> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table> Student's Signature						

Q.1. Short question/One word answer Any Ten: (10)

- The program and languages used by the computer are called _____.
- All physical components of computer are part of the _____.
- The _____ is the “brains” of every microcomputer.
- The binary language consists of two digits: _____ and _____.
- _____ are the fastest and most expensive computers.
- _____ are computers that support hundreds or thousands of users simultaneously.
- A program that contains nothing but strings of zeros and ones is called a(n) _____.
- _____ software helps you carry out tasks, such as typing a document or creating a spreadsheet.
- Define: Proteomics
- Write full form: NCBI
- The program and languages used by the computer are called _____.
- _____ compound has desirable properties to become a drug.

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

- Components of Computer.
- Output devices - Non-Impact Printers.

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

- Conversion of number from Decimal Systems to Other Base System with example.
- Binary Number System.
- System Software and its features.

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

- Define Bioinformatics and scope of it.
- Structure Visualizing Tools - RAMOL & SWISS-PDB VIEWER

Q.5. Short note Any Two of the following: (10)

- Biological Database and its important.
- SCOP
- KEGG