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(Printed Pages 3)

(20425)

Roll No.

B.Sc.(Bio-Tech.)-II Year

3464

B.Sc. (Biotechnology)

Examination, April-2025

Fundamental of Computers and

Bioinformatics

(B-201)

(B.Sc. Biotech.)

Time : Three Hours]

[Maximum Marks : 50

Note : Attempt any **five** questions. **All** questions carries **10** marks.

1. Define computer with example. Explain the history and generations of computer system.
2. Define hardware and software with example? Explain the structure of CPU in computer system.

P.T.O.

3. Write short notes on the following:

(i) ALU

(ii) CU

✓ 4. Discuss Analog, Digital and Hybrid computer in detail. Differentiate Application and System software.

✓ 5. Convert the following number system into the given number system

$$(675489)_{10} = (\text{---})_2$$

$$(ABC89)_{16} = (\text{---})_{10}$$

$$(159)_{10} = (\text{---})_{10}$$

6. Define operating system and its types. Discuss user mode and kernel mode in operating system.

✓ 7. Explain the uses of Internet in Biotechnology. Differentiate Biotechnology and Bioinformatics.

8. Write about the main components and history of Bioinformatics.

9. ✓ Explain, how the Internet helps in designing the Drug. What are the stages of drug designing?

10. ✓ Write short notes on:

(i) BLAST

(ii) FASTA