

**RAN-2311001001030001**

**B.Sc. (Comp.Sci.) (NCF-NEP) (Sem. I) Examination November - 2025**  
**Minor-CS-103-Fundamentals of Computer (Paper - 103)**

[ Total Marks: 50

**સૂચના : / Instructions**

(1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.

Fill up strictly the above details on your answer book.

Seat No.:

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Student's Signature

**Q.1. Answer the following.****(13)****(A) Answer the following****(05)**

- Which of the following is a microcomputer?
  - Laptop
  - Supercomputer
  - Mainframe
  - Minicomputer
- Cache memory is placed between:
  - CPU and Hard Disk
  - CPU and RAM
  - RAM and ROM
  - Input and Output
- RFID technology in FastTag works using:
  - Radio Waves
  - Laser Beams
  - Infrared Light
  - Bluetooth
- Which device is used to connect a computer to the Internet via telephone lines?
  - Router
  - Modem
  - Switch
  - Bluetooth
- Bookmarks in a browser are used to:
  - Save frequently visited sites
  - Increase memory
  - Download files
  - Remove cache

**(B) Answer the following.****(08)**

- What is Software? Define system software.
- Define cache memory, virtual memory
- Explain what a URL is. What is HTTP?
- What is internet? What does Wi-Fi stand for?

**Q.2. Answer the following.****(13)**

- (A) Describe the block diagram of a computer and explain its components.

**(08)****OR**

- (A) Write a detail note on types of computers.

**(08)**

- (B) Discuss ROM, EPROM, and EEPROM.

**(05)**

**Q.3. Answer the following. (Any Two) (12)**

- (A) Explain what cache memory is and how it works.
- (B) Explain the working principle of an inkjet printer.
- (C) Describe the concept of RFID in detail.

**Q.4. Answer the following. (Any Two) (12)**

- (A) Explain the concept of online data backup.
  - (B) Describe tabbed browsing and bookmarks.
  - (C) Discuss in detail how a modem works.
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