

June : 2026

COMPUTER SCIENCE

Paper: CSC-M-201

FOUNDATION OF COMPUTER SCIENCE

Time: 2 Hours

Total Mark: 45

(The figures in the right margin indicate full marks of the questions)

1. Choose the correct answer from the following: 1×5=5
- i. Which technology is used in fifth generation computers?
 - a. Integrated chips
 - b. Parallel processing
 - c. Transistors
 - d. ENIAC
 - ii. Which memory works as an intermediary between CPU and HDD?
 - a. Optical storage
 - b. SSD (solid state drive)
 - c. RAM
 - d. None of these
 - iii. The correct statement is—
 - a. Shell acts as interface between user and kernel
 - b. Kernel interacts with user directly
 - c. Kernel is optional
 - d. All of the above
 - iv. Which command creates directory in Linux?
 - a. Touch
 - b. mkdir
 - c. mkdir
 - d. cp
 - v. Trojan is—
 - a. OS command
 - b. Antivirus
 - c. Hardware
 - d. Malware disguised as software

2. Answer the following questions (*any three*): $4 \times 3 = 12$
- i. Differentiate between compiler and interpreter? Give examples.
 - ii. Explain the capabilities and limitations of computers.
 - iii. Explain the steps of the instruction execution cycle.
 - iv. Define computer virus. What are the types of viruses? Explain with examples.
 - v. What is database management system? Explain the components of a database.
3. Answer the following questions (*any four*): $7 \times 4 = 28$
- i. Briefly explain the generations of computers with features and examples.
 - ii. Define computer organization. What are the functional units of a computer system? Explain the communication among the hardware components and also describe the data flow inside a computer system.
 - iii. What are the goals of an operating system? Also explain the functions of operating system and its types.
 - iv. Define spreadsheet? Briefly explain its features and applications.
 - v. Differentiate between system software and application software. Give examples.
 - vi. What is MS PowerPoint? Write the steps animation and transition in powerpoint.
