

Dr. Babasaheb Ambedkar Open University
Term End Examination July – 2026

Course	: BSCIT	Date	: 18/07/2026
Subject Code	: BSCITRMI-103	Time	: 11:30am to 01:45pm
Subject Name	: Computer Fundamentals	Duration	: 02.15 Hours
		Max. Marks	: 70

Section A

Answer the following (Attempt any three) (30)

1. Explain the functional components of a computer system with a neat block diagram.
2. Explain the functions of ALU, Control Unit and Registers.
3. Explain different types of computer memory.
4. Explain the types of software with suitable examples.
5. Explain different input and output devices used in a computer system.

Section B

Answer the following (Attempt any four) (20)

1. Differentiate between Hardware and Software.
2. Explain the functions of the motherboard.
3. Write a short note on Cache Memory.
4. Explain Optical Character Reader (OCR) and Optical Mark Reader (OMR).
5. What is Number System? Explain Decimal and Binary Number Systems.
6. Explain the purpose of Logic Gates in digital circuits.

Section C

Part – A (Multiple Choice Questions) (10)

Q.1 Which component is known as the brain of the computer?

- | | |
|-------------|--------------|
| A) Monitor | B) CPU |
| C) Keyboard | D) Hard Disk |

Q.2 Which memory loses its contents when the power is switched OFF?

- | | |
|--------|--------------|
| A) ROM | B) Hard Disk |
| C) RAM | D) DVD |

Q.3 Which of the following is an input device?

- | | |
|------------|------------|
| A) Speaker | B) Printer |
| C) Scanner | D) Monitor |

Q.4 Which storage device uses optical technology?

- | | |
|--------------|--------------|
| A) Hard Disk | B) DVD |
| C) RAM | D) Pen Drive |

Q.5 Which software manages the overall operation of a computer?

- | | |
|---------------------|---------------------|
| A) Utility Software | B) Operating System |
| C) Spreadsheet | D) Compiler |

Q.6 Which part of the CPU performs arithmetic and logical operations?

- | | |
|-------------|-----------------|
| A) ALU | B) Control Unit |
| C) Register | D) Cache |

Q.7 Which number system uses only the digits 0 and 1?

- A) Decimal B) Octal
- C) Binary D) Hexadecimal

Q.8 Which logic gate produces HIGH output only when all inputs are HIGH?

- A) OR Gate B) NOT Gate
- C) AND Gate D) XOR Gate

Q.9 Which device is mainly used to print information on paper?

- A) Plotter B) Printer
- C) Scanner D) Webcam

Q.10 Which storage medium generally provides the highest storage capacity?

- A) CD B) DVD
- C) Hard Disk D) Floppy Disk

Part – B (State whether the following statements are true or false)

(10)

- 1 The CPU controls the operation of all components of a computer.
- 2 ROM is a volatile memory.
- 3 A keyboard is an input device.
- 4 Cache memory is slower than RAM.
- 5 An Operating System is system software.
- 6 A motherboard connects various hardware components of a computer.
- 7 Binary number system has ten digits.
- 8 OCR is used to read printed characters.
- 9 A NOT gate has two input terminals.
- 10 Hard Disk is a secondary storage device.
