

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

Course	: BCAR/DCAR	Date	: 15-07-2026
Subject Code	: BCAR/DCAR-101 OLD	Time	: 11:30am to 01:45pm
Subject Name	: Fundamental of Computer and Information Technology	Duration	: 02.15 Hours
		Max. Marks	: 70

Section A

Answer the following (Attempt any three) (30)

1. Explain Functional Components of Computer System.
2. Explain Essential Registers for Instruction Execution.
3. Explain Types Of Operating Systems.
4. Explain Network Topologies.
5. Explain all Logic Gates with example?

Section B

Answer the following (Attempt any four) (20)

1. Write short note on: CD-ROM and DVD-ROM.
2. Differentiate between Softcopy Output Devices and Hardcopy Output Devices.
3. Write short note on: Process And Storage Devices.
4. Explain Disk And File Management Operations.
5. Explain Storage Devices in details.
6. Explain Octal Number System and Hexadecimal Number System with example.

Section C

Part – A (Multiple Choice Questions) (10)

- 1 Which one is an INPUT device?

A	Floppy Disk	B	Keyboard
C	Monitor	D	Speakers

- 2 The computer generations are: Early 1960s – Early 1970s _____

A	Vacuum tube	B	Transistor
C	Integrated circuit	D	Parallel processing

- 3 DVD disks or Digital Versatile Disks are specifically created to store movies. A typical DVD disk can hold between ___.7GB and 17GB of information.

A	1	B	2
C	3	D	4

- 4 Typical CPU Speeds Based on Chip Type : Intel Pentium II _____

A	500 MHz - 800 MHz 1	B	233 MHz - 450 MHz
C	450 MHz - 1 GHz 2	D	1.4 GHz - 2 GHz

- 5 Instruction Cycle : The control unit fetches (gets) the program instruction from memory.
- | | | | |
|---|---------------------|---|--------------------|
| A | Fetch Instruction | B | Decode Instruction |
| C | Execute Instruction | D | Store(write)Result |
- 6 Magnetic Ink Character Recognition is often used on:
- | | | | |
|---|----------|---|-------------|
| A | Receipts | B | Photographs |
| C | Barcodes | D | Cheques |
- 7 Terminals – As Input And Output Devices: ____ is another term for a typical computer system, with its own microprocessor, memory and storage devices.
- | | | | |
|---|----------------|---|----------------------|
| A | Smart Terminal | B | Intelligent Terminal |
| C | Dumb Terminal | D | None of these |
- 8 The most suitable output device for producing a few color brochures cheaply would be
- | | | | |
|---|----------------------|---|-----------------|
| A | an inkjet printer | B | A laser printer |
| C | A dot matrix printer | D | a plotter |
- 9 Full form for WAN_____
- | | | | |
|---|--------------------|---|--------------------|
| A | Wide area net | B | Wire area networks |
| C | Wide area networks | D | Wire area net |
- 10 What is 3578 in binary?
- | | | | |
|---|-------------|---|-------------|
| A | 011 101 111 | B | 101 011 111 |
| C | 111 101 011 | D | 101 011 111 |

Part – B (Do as Directed)

(10)

- Hard Disk: A fixed, large-capacity magnetic storage medium for computer data. (True / False)
- Dynamic RAM (DRAM) retains its contents even as long as the power is available. (True / False)
- Data bus is an internal pathway across which data are transferred to and from the processor or to and from memory. (True / False)
- NOT is a circuit that produces an inverted version of its input. (True / False)
- Read only memory or ROM is not an integrated circuit, programmed with specific data when it is 103 manufactured. (True / False)
- A computer keyboard is the most common method of inputting data into a computer's memory directly. (True / False)
- The most suitable input device for selecting (highlighting) text on a screen would be a: Keyboard. (True / False)
- Full form of electronic data interchanges (EDI). (True / False)
- A dial up connection requires a device called a modem, which converts your computer's digital signals into a type of signal that can travel over phone lines. (True / False)
- The NOR gate is a combination OR gate followed by an inverter. (True / False)
