

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

|              |                                                    |            |                        |
|--------------|----------------------------------------------------|------------|------------------------|
| Course       | : BCA / BCAOL                                      | Date       | : 16/07/2026           |
| Subject Code | : BCAMA-102 / BCAOL-102                            | Time       | : 11:30 am to 01:45 pm |
| Subject Name | : Fundamental of Computer & Information Technology | Duration   | : 02.15 Hours          |
|              |                                                    | Max. Marks | : 70                   |

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**Section A**

**Answer the following (Attempt any three) (30)**

1. Explain the functional components of a computer system.
2. What is meant by Information Technology? Explain.
3. Write a short note on Keyboard.
4. Explain the Number system in brief.
5. Describe the fetch–execute cycle in a computer system.

**Section B**

**Answer the following (Attempt any four) (20)**

1. Differentiate between CD-ROM and DVD-ROM.
2. Explain the uses of the different components in detail.
3. Write a short note on Pointing devices.
4. Explain NOT Gate Logic diagram and Truth Table.
5. Discuss the applications software in brief.
6. Differentiate between impact and non-impact printers.

**Section C**

**Part – A (Multiple Choice Questions) (10)**

- 1 Which of the following is known as the brain of the computer?  
A Motherboard B CPU  
C RAM D Hard Disk
- 2 Which of the following is an input device?  
A Monitor B Printer  
C Keyboard D Speaker
- 3 Which unit controls all the operations of a computer?  
A Arithmetic Logic Unit B Memory Unit  
C Control Unit D Output Unit
- 4 DVD-ROM can store more data than \_\_\_\_\_.  
A RAM B ROM  
C CD-ROM D Cache Memory
- 5 Which memory allows programs larger than physical RAM to execute?  
A Cache Memory B ROM  
C Register D Virtual Memory
- 6 Which storage device provides sequential access?  
A Hard Disk B SSD

- |  |           |                 |
|--|-----------|-----------------|
|  | C DVD-ROM | D Magnetic Tape |
|--|-----------|-----------------|
- 7 Which slot is commonly used for graphics cards?
 

|        |                      |
|--------|----------------------|
| A SATA | B PCI Express (PCIe) |
| C USB  | D IDE                |
  - 8 Which bus transfers data between CPU and memory?
 

|               |                 |
|---------------|-----------------|
| A Data Bus    | B Address Bus   |
| C Control Bus | D Expansion Bus |
  - 9 The first stage of the instruction cycle is \_\_\_\_\_.
 

|          |           |
|----------|-----------|
| A Fetch  | B Execute |
| C Decode | D Store   |
  - 10 Which register stores the currently executing instruction?
 

|       |      |
|-------|------|
| A MAR | B PC |
| C MDR | D IR |

**Part – B (Do as Directed)**

**(10)**

- 1 The CPU is known as the brain of the computer. (True/False)
- 2 A printer is an input device. (True/False)
- 3 RAM stands for \_\_\_\_\_ Access Memory.
- 4 Registers are located inside the CPU. (True/False)
- 5 Cache memory is slower than RAM. (True/False)
- 6 \_\_\_\_\_ Memory uses secondary storage to extend RAM.
- 7 BIOS are stored in the ROM chip. (True/False)
- 8 The Address Bus transfers data between CPU and memory. (True/False)
- 9 The first step of the instruction cycle is Fetch. (True/False)
- 10 The Program Counter (PC) stores the current instruction. (True/False)

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