

May 2015

Bachelor of Computer Application (BCA) Examination
IV Semester

Digital Computers Organisation

Time 3 Hours]

[Max. Marks 50

Note : Attempt all the five questions. All questions carry equal marks.

1. Make the block diagram of a computer and explain its various components.

OR

Write short notes on the following :

- (a) Microprocessor.
(b) Stored Program Concept.
2. (a) Explain the read and write mechanism in hard disk.
(b) Explain the working mechanism of laser printer.

OR

- (a) Explain the working principle of scanner.
(b) Write short notes on joystick.
3. (a) Write various types of ROM and explain them in brief.
(b) Write comparison between static RAM and dynamic RAM.

OR

- (a) Write short notes on cache memory.
(b) Explain the read and write mechanism in optical disk.
4. (a) What are the basic functions of a central processing unit ?
(b) Write difference between distributed processing and parallel processing with example.

OR

- (a) Explain the concept of multiprogramming with example.
(b) Explain various network topologies with example.
5. (a) Write short notes on interrupt driven I/O.
(b) Explain the concept of virtual memory.

OR

- (a) Write short notes on OMA.
(b) Explain the concept of programmed I/O.

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