

July 2009

Bachelor of Computer Application (BCA) Examination
IV Semester

Digital Computers Organisation

Time : 3 Hours]

[Max. Marks : 50

Note- All questions are compulsory.

1. (a) Explain the function of each element of CPU.
(b) What are Microprocessors and Single Chip Microcomputers?
(c) Define Flowcharts and Algorithms.

OR

- (a) What is Software? How many types of software? Explain.
(b) What do you understand by Word Length and Speed of a Computer? Explain with examples.
2. (a) Explain any two output devices-
(b) Write short notes on the following-
(i) Keyboard (ii) Joystick

OR

- (a) Differentiate Impact Printer and Non-Impact Printers.
(b) What is a Scanner? What are different types of Scanners? Discuss their working principles.
3. (a) How many words can be stored in $16k \times 10$ memory unit? How many bits can be stored with this memory unit?
(b) Explain Program Memory and Data Memory.

OR

- (a) Explain the organisation of Hard Disk. How data is written onto the disk?
(b) Explain different types of Floppy Disk.
4. (a) Write short notes on Smart and Intelligent Terminals.
(b) Differentiate between LAN, MAN and WAN.

OR

- (a) Compare Multitasking and Multiprogramming.
(b) What is Parallel Processing? Give Flynn's classification of parallel computers.
5. (a) What is Interrupt? Explain different types.
(b) What is Memory Management Unit? What are its functions?

OR

Write short notes on any two of the following-

- (a) I/O Processor (b) Direct Memory Access
(c) Virtual Addressing Scheme (d) Interrupt Control Information Transfer

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