

July-August - 2010**Bachelor of Computer Application (BCA) Examination****IV Semester****Digital Computer Organisation**

Time : 3 Hours]

[Max. Marks : 50

Note : All questions are compulsory.

1. (a) What is the difference between hardware, software and firmware?
(b) What do you mean by word length of computer? How is it related to CPU speed?

OR

- (a) Explain advantages and disadvantages of stored program concept.
(b) Write the various functions of arithmetic logic unit.
2. Write short notes on the following :
(i) Mouse
(ii) Scanners
(iii) Hard Disk
(iv) Plotter

OR

- (a) Explain working of laser printer.
(b) What is the difference between printer and plotter? Explain.
3. (a) Write the various types of ROM and explain them in brief.
(b) What is the need of creating memory hierarchy? Make the diagram of memory hierarchy and explain it.

OR

- (a) Explain the organization of Hard disk. How is data written onto the disk?
(b) Explain the working of optical disk.
4. (a) Explain Batch Processing.
(b) Write various topologies used in a local area network and explain them in brief.

OR

- (a) What do you mean by parallel processing? What are various advantages of doing parallel processing.
(b) Explain the concept of distribution computing.
5. (a) What do you mean by virtual addressing scheme?
(b) Explain about interrupt controller.

OR

- (a) What do you mean by burst mode of data transfer?
(b) Explain the concept of Direct Memory Access.

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