

June-July 2008

Bachelor of Computer Application (BCA) Examination

IV Semester

Digital Computers Organisation

Time : 3 Hours]

[Max. Marks : 50

Note : All questions are compulsory.

1. (a) What do you mean by Von-Newmann Model? Explain briefly.
 (b) What is a microprocessor? Explain difference between micro processor and micro computer.

OR

- (a) define :
 (i) Word length of computer
 (ii) Processing speed of computer.
 (b) Explain :
 (i) difference between High level language and Low level language.
 (ii) difference between H/w and S/w.

2. What do you mean by Impact and Non Impact Printer? Explain the criterion. Explain working of dot matrix printer, specify it's a impact or non impact printer.

OR

Write short notes on the following :

- (a) Hard disk. (b) Colour display monitor.
 3. What is ROM? Specify all the variants of ROM along with their technical differences.

OR

- (a) What is cache? Explain its utility? What do you mean by Hit rate?
 (b) Distinguish between Floppy disk and Optical disk.
 4. (a) Differentiate between LAN, WAN and MAN.
 (b) What do you mean by Tightly coupled and Closely coupled system?

OR

- (a) Distinguish between Distributed processing and Multi processing.
 (b) Explain different types of Network Topologies.
 5. Explain the various ways of data transfer both CPU and I/O.

OR

- (a) Explain Hardware and Software interrupts with suitable example. Also explain masking and non masking interrupts.
 (b) With reference to DMA explain :
 (i) Cycle Stealing (ii) Burst Transfer.

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