

March 2011

**Bachelor of Computer Application (BCA) Examination
V Semester**

Computer Organisation and Architecture

Time 3 Hours]

[Max. Marks 40

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

1. (a) What is meant by Computer Organisation ? Differentiate it with Computer Architecture?
- (b) Explain brief history of Computers and its designing.

OR

- (a) Discuss various computer component and computer functions.
- (b) Draw and explain Instruction Cycle.
2. (a) Write short notes on different secondary memories and its standard.
- (b) Explain the importance of Micro Instruction with example. Hence explain fetching of Micro Instruction.

OR

- (a) Why is Cache Memory used ? Explain how is it organised ?
- (b) Explain the internal organisation of Semiconductor RAM Memories.
3. (a) What is an Instruction? Describe the format of an instruction. How is it executed ?
- (b) What is Shift Micro Operation ? Explain its uses giving example.

OR

What is Mode of Transfer ? Explain the various modes of transfer in details.

4. (a) Explain the importance of Micro instruction sequencing and execution.
- (b) Write short notes on Magnetic Tape and Magnetic Disk.

OR

- (a) Write application of Microprogramming.
- (b) Explain Hardwired Control in detail.
5. Explain the following :
 - (a) Memory Mapped I/O.
 - (b) I/O Register.
 - (c) Hardware Interrupt.
 - (d) Vectored Interrupt.

OR

Write a note on SCSI Bus. Explain with a neat diagram.