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### Bachelor of Computer Application (BCA) Examination

#### V Semester

## Computer Organisation and Architecture

Time 3 Hours]

[Max. Marks 40

# Note: Attempt any two parts from each question. Each part of a question carries 4 marks. Each question carries equal marks.

- (a) Write various characteristics of third generation computers.
  - (b) What are the various basic functions of a computer? Explain them in brief.
  - (c) Write short note on PCT.
- 2. (a) What do you mean by RAID? Explain RAID level 0 and level 1.
  - (b) Write short note on DRAM.
  - (c) Explain read and write mechanism in Magnetic Disk.
- (a) Write various advantages and disadvantages of GPR (General Purpose Register) based processor organization.
  - (b) What do you mean by Addressing Modes? Write any four addressing modes with example.
  - (c) What do you mean by Instruction Pipelining? How it improves system performance? Explain with an example.
- (a) What are the various advantages of Microprogrammed implementation over Hardwired implementation.
  - (b) How a microprogrammed control unit works? Explain.
  - (c) Write short note on Microinstruction Sequencing.
- (a) Write comparison between Interrupt Driven I/O and Programmed I/O.
  - (b) Make the block diagram of any I/O Module and explain its various components.
  - (c) Write short note on Parallel Processors.