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March 2012

Bachelor of Computer Applications (BCA) Examination

V Semester

Computer Organisation and Architecture

Time 3 Hours]

[Max. Marks 40

Note: Attempt all five question and attempt any two parts from each question.

- 1. (a) Draw and explain functional view of Computer.
 - (b) Explain Bus interconnection scheme.
 - (c) Define briefly functional groups of signal lines for PCI.
- (a) Explain about principles of Cache memory.
 - (b) Explain with diagram synchronous DRAM.
 - (c) Briefly explain about RAID and Optical Memory.
- (a) Describe addressing mode with its different types.
 - (b) Write short note on Instruction Pipelining.
 - (c) Describe CPU structure and function of the Pentium Processor.
- (a) Explain briefly the purpose of control memory.
 - (b) Explain some applications of micro-programming.
 - (c) Write short notes on : (i) Micro Operations. (ii) Micro Instruction Sequencing.
- 5. (a) Describe programmed I/O with suitable example.
 - (b) Differentiate between Array processor and Parallel processor.
 - (c) Explain MESI Protocol.

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