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Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

B.Tech. (3D Animation & Graphics) (2012 Onwards) B.Tech. (CSE/IT) (2011 Onwards)

(Sem.–3) COMPUTER ARCHITECTURE Subject Code : BTCS-301 Paper ID : [A1123]

Time: 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

- 1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

- I. Write briefly :
 - a) What are the merits and demerits of single address instructions?
 - b) What is micro-programming?
 - c) What are the components of an I/O interface?
 - d) What do you mean by Associative memory and its application?
 - e) What is the role of cache in pipelining?
 - f) Define Guard bit and truncation.
 - g) What is bus arbitration and its types?
 - h) Differentiate between CISC & RISC.
 - i) Name various data transfer modes.
 - j) State the basic performance equation.

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SECTION-B

- 2. What are the types of ALU? Give advanced features of ALU.
- 3. Discuss the data and control path methods in pipelining.
- 4. Define Micro-operation with example. Give the format for micro instruction.
- 5. Define addressing mode and describe the basic addressing modes with an example for each.
- 6. List and explain the steps involved in the execution of a complete instruction.

SECTION-C

- 7. Explain with the help of a neat sketch diagram, the working principle of DMA.
- 8. Discuss the features of cache memory and different mapping functions used for its accessing. How can its performance be improved?
- 9. Discuss different types of control unit organizations. Compare and contrast the hardwired control organization and micro programmed Control organization.

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