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B.Tech (ECE) (2011 Batch E-III) (Sem.-7,8) COMPUTER ORGANIZATION AND ARCHITECTURE Subject Code : BTEC-914 M.Code : 71814

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

1. Answer briefly :

- a) Explain the concept of MIPS.
- b) What is the principle of working of Cache memory?
- c) What is cache coherence?
- d) What is multithreading?
- e) What is microinstruction sequencing?
- f) What is the meaning of Superscalar architecture?
- g) What is the difference between instruction and machine cycle?
- h) What is point-to Point interconnecting?
- i) What is pipelining?
- j) What do you mean by multi core organization?



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SECTION-B

- 2. Explain the Flynn's classification of computers.
- 3. Explain the concepts of computer organization and architecture.
- 4. What are the elements of cache design? Explain.
- 5. Explain the organization of typical register based CPU.
- 6. Explain the concept of vector computation.

SECTION-C

- 7. Why vector processors are expensive? What are their advantages?
- 8. What are Multi-core Processors? What are the Hardware and Software Performance Issues? Discuss Intel x 86 Multi-core organizations.
- 9. Explain the Fetch-decode and execute cycles in detail.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.