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B.Tech. (Electronics & Computer Engg.) (2011 Onwards) (Sem.-5)

COMPUTER ARCHITECTURE

Subject Code: BTCS-301 M.Code: 70572

Time: 3 Hrs. Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

- 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) List various logic microoperations.
- b) Define the term instruction code.
- c) Draw the block diagram of the control unit of Basic Computer.
- d) Define the term microinstruction.
- e) List various data transfer instructions.
- f) What is the purpose of I/O interface?
- g) Explain in brief about serial communication.
- h) Explain in brief about cache memory.
- i) Define the term pipeline.
- j) Explain in brief about vector processors.



SECTION-B

- Q2 Write a detailed note on shift microoperations.
- Q3 Write a detailed note on control memory.
- Q4 Explain in brief about asynchronous data transfer.
- Q5 Write a detailed note about array processors.
- Q6 Explain in detail about auxiliary memory.

SECTION-C

- Q7 Write a detailed note on Computer Registers.
- Q8 Write a detailed note on RISC and CISC architecture.
- Q9 Explain the following in detail:
- MWW.FitstRanker.com a) Arithmetic Pipeline with an example.
 - b) Virtual memory.

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.

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