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II/IV B. Tech (Regular) DEGREE EXAMINATION

November, 2020

Fourth Semester Time: Three Hours Computer Science & Engineering Computer Organization

Maximum: 50 Marks Answer ALL Questions from PART-A. Answer ANY FOUR questions from PART-B. (1X10 = 10 Marks) (4X10=40 Marks) Part - A Answer the following: 1. What is normalization? (1X10=10 Marks) b) Define Microoperation. ¢} (235,15)10 -> ()16 d) Define Instruction code. How to identify the instruction is memory-reference instruction? T) 1) What is instruction cycle? g) Define effective address. h How to complement the selected bits of an operand? i). What is bootstrap loader? What is the difference between SRAM and DRAM? j) Part - B 2. Explain about complements with examples. a) 5 M 6) What are the different binary codes available? Explain: 1 5 M Explain common bus system for four registers. 3 a) 5 M Explain Hardware implementation of Shift nticrooperations. 6) SM Explain Common Bus System with basic computer registers. 4: a) Explain in detail about Instruction Cycle. 5 M 67 5 M Explain the list of Memory-Reference Instructions. 5. a) 5 M b) Explain the design of Accumulator Logic. 5 M Explain General Register Organisation with a near diagram. б. a) 5 M 5) Explain the concept of Instruction Formats. 5 M 7. 2) Explain the list of addressing modes. 7:M b) Differentiate between internal and external interrupts. 3 M 8. 重) Explain the concept of Main Memory. 5 M **b**) Discuss in detail about Memory Hierarchy. 5 M Explain in detail about Auxiliary Memory. 9 4) 5 M

Explain the block diagram of Associative Memory.

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