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Mid Semester Examination - Sept./Oct. 2019

Subject Name: Computer Architecture & Organization Max Marks: 20 Course: B. Tech in Information Technology Date:- 07/10/2019 Subject Code: BTCOC304 Duration:- 1 Hr. Sem: III

Instructions to the Students:

- Assume suitable data wherever necessary and mention it clearly.
- Figures to right indicate full marks.

- 'n A) 0001111 What is the result of multiplication of unsigned integers 1011 x 1101. B) 100111111 C)100011111 D) 00001111 CO1
- representation. 3. How many representations are there for 0 (zero) in 1's compliment CO1
- A) One B) Two C) Three D) No Representation
- (processor, memory, I/O) is called 4. The interconnection mechanism that connects major computer components
- A) Component Bus B) System Bus C) Main Bus D) Major Bus

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- 5. Assembler directives are commands that are understood by the A) Compiler B) Assembler C) CPU D) Control Unit
- executed. The statement is: 6. Instruction register (IR), contains the 8-bit opcode instruction being 8
- A) True B) False

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	Q.3 (B)	(C) (B) (A)	Q.2
*** End ***	Solve Any One of the following. Sketch and explain flowchart for Booth's algorithm. Explain in detail data flow during an instruction cycle.	Draw and explain von-Neuman's architecture. Explain any two addressing modes with diagram. Differentiate between RISC and CISC architecture.	Solve Any Two of the following.
	CO ₄	CO3	
	8 X 1		3 X 2