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Seat	
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[5559]-184

S.E. (Computer) (I Sem.) EXAMINATION, 2019 COMPUTER ORGANIZATION AND ARCHITECTURE (2015 PATTERN)

Time: Two Hours Maximum Marks: 50

Instructions to the candidates:

- 1) Neat diagrams must be drawn wherever necessary.
- 2) Figures to the right side indicate full marks.
- 3) Use of Calculator is allowed.
- 4) Assume Suitable data if necessary

Q.1 a) Draw and explain flow chart of non restoring division algorithm b) Write short note on 1.PROM	[6] [6]
2.EPROM OR	. 0
Q.2 a) Draw and explain hardware implementation of Booth's Algorithm	n [6]
b) Draw and explain memory hierarchy	[6]
9.	
Q.3 a) Write short note on Infini Band and Infini band Architecture	[6]
Ø	
b) Explain following addressing modes with one example ea	ch [6]
a. auto increment	
b. auto decrement	
c. immediate	
OR	
Q.4 a) Draw and explain I/O channels with diagram.	[6]
b) What is opcode and operand? How machine instruction is represented in	n X86? [6]

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Q.5	a)	Discuss in detail 1. Instruction level and machine level parallelism 2. Instruction Issue Policy	[6]
	b)	Enlist and explain Use visible registers and control and status registers OR	[7]
Q.6	a) b)	Draw and explain Instruction cycle state diagram Enlist features of 8086 microprocessor.	[7] [6]
Q.7	a)	Write a Control Sequence for Conditional Branch Instruction?	[7]
	b)	Explain How to Fetching a word from Memory and how to store a Word into Memory ? OR	[6]
Q. 8	a)	Explain in detail State Table Design Method for Hardwired Control?	[7]
	b)	Explain Vertical Microinstruction format	[6]