Seat	
No.	

[4657]-549

S.E. (E&TC/Electronics) (II Sem.) EXAMINATION, 2014 COMPUTER ORGANIZATION

(2012 PATTERN)

Time: Two Hours Maximum Marks: 50

- **N.B.** :— (i) Neat diagrams must be drawn wherever necessary.
 - (ii) Figures to the right indicate full marks.
 - (iii) Use of logarithmic tables, slide rule, Mollier charts, electronic pocket calculator and steam tables is allowed.
 - (iv) Assume suitable data, if necessary.
- 1. (a) Draw the block diagram of basic structure of computer. Explain each block in detail. [6]
 - (b) Perform the following division using restoring algorithm: [6]
 - (i) dividend = 1001
 - (ii) divisor = 0101.

Or

- **2.** (a) Discuss about concept of superscalar computer. [6]
 - (b) Represent (-13) multiple in booths record format and bit pair recorded format. [6]

P.T.O.

3.	(a)	Explain the micro-instructions with next-address field in deta	il
		with block diagram.	6]
	(<i>b</i>)	What is the difference between subroutine and interrupt service	ce
		routines ?	6]
		Or	
4.	(a)	Write control sequence for the following instruction for the	ıe
	, ,	_	6]
	(<i>b</i>)		6]
5.	(a)	Explain the dynamic RAM organization.	6]
	(b)		7]
		Or	
6.	(a)		7]
•	(b)	·	6]
	(0)	Write a note on virtual memory.	O]
7.	(a)	Explain Segment Registers of 8086.	7]
	(<i>b</i>)	Explain functions of the following pins of 8086:	6]
		NMI, INTR, RESET, READY, BHEbar.	
		Or	
8.	(a)	Draw Flag Structure of 8086 and explain operation of each	:h
		flag.	7]
	(b)	Explain logical to physical addressing of 8086.	6]

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