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SET - 1

II B. Tech II Semester Supplementary Examinations, November - 2018 COMPUTER ORGANIZATION

(Com. to CSE, ECC)

Time: 3 hours

Max. Marks: 70

Note: 1. Question Paper consists of two parts (Part-A and Part-B) 2. Answer ALL the question in Part-A 3. Answer any THREE Questions from Part-B

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PART -A

1.	a)	Convert the following binary number to hexadecimal numberi) 1.11010ii) 1110.10	(4M)
	b)	What is register transfer bus	(4M)
	c)	For a RISC machine, the effective value of S is 1.25 and the average value of N is 200. If the clock rate is 500MHz, calculate the total program execution time	(4M)
	d)	Explain the Hardware implementation for signed magnitude data	(4M)
	e)	Explain the memory hierarchy	(3M)
	f)	What is the need of I/O interface module	(3M)
		<u>PART –B</u>	
2.	a)	What are the advantages of Grey codes? Discuss areas of application	(8M)
	b)	Draw the functional diagram of a computer and explain each block	(8M)
3.	a)	Evaluin about the shift micro encrations	(8M)
	<i>a)</i>		(0NI)
	D)	Explain the design of basic computer	(8M)
4.	a)	Differentiate between hardwired and micro programmed computers	(8M)
	b)	Explain the types of Interrupts	(8M)
5.	a)	Draw and explain the division of floating point numbers	(8M)
	b)	Explain the Booth's multiplication algorithm	(8M)
6.	a)	Explain about the direct mapping	(8M)
	b)	Explain the relation between address and memory space in a virtual memory	(8M)
	- /	systems	()
7.	a)	Explain the characteristics of multiprocessor system	(8M)
	h)	Explain the data transfer procedure for source initiated using handshaking	(8M)
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