R13

Max.Marks:60

Code No: 5158A

Time: 3hrs

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

M. Tech I Semester Examinations, February - 2017 COMPUTER SYSTEM DESIGN

(Computer Science and Engineering)

Time:	3hrs	2	4		
	This question paper of Part A is compulso consists of 5 Units. marks and may have	ry which carries Answer any one f	full question from	ver all questions in each unit. Each o	n Part A. Part B question carries 8
*		P	ART -A		$5 \times 4 \text{ Marks} = 20$
1.a) b) c) d) e)	Write a short notes of What are the steps in What are various type. Write the difference Explain about user a	nvolved in instructions of memory and structures of memory and structures of the str	tion execution? d give memory h	ierarchy?	[4] [4] [4] [4] [4]
		I	PART - B		5×8 Marks = 40
2.a) b).	Explain logic and sl What are various ac What are the differe			l application softw	are? [3+3+2]
3.a)	Explain about regis	ters usage and im		essor.	
b) c)	Discuss briefly abo Explain device driv Describe hardwired	ut I/O interfaces. ers in windows.			[2+3+3]
5.a) b)	Explain about pipe Explain about data	lining and its influe path & control co	uence on instruct	ion sets. pelining.	[4+4]
6.â) b)	Explain in detail at Explain memory m	anagement in UN	OR		ce? [4+4]
7.a) b)	What is page fault What are different	and how swappin page replacemen	g recovers page: t methods? Expla	fault? .in any two of then	n. [3+5]
			> < N	3.43	****

b) What	ly explain the life are the vare oided?			detection and	how can they [4+4]	
	e about the variou ain briefly dining		ved in inter proces	ss communicatio	on.	
b) Expla	are the various sain briefly about a cryptography a	[3+3+2]				
b) Brief	about the directo	ory representatio	OR can it be prevented in UNIX. JNIX file system?	2 SM	[3+3+2]	
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