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## JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

## B.Tech III Year I Semester Examinations, February/March - 2016 COMPUTER ORGANIZATION AND OPERATING SYSTEMS

•	COMPUTER ORGANIZATION AND OPERATING SYSTEMS (Electronics and Communication Engineering)										
	Tin	ne: 3 hours		NO. JUNE. NAT NATE THE RESERVE				Max. I	Marks: 75		
	Note	e: This question p	aner contait	ns two par	rts A and B	<b>.</b>					
	- 100	Part A is com	-	_			r all que	stions in	Part A.		
1251(\$ *M		Part B consist Each question of	ts of 5 U	nits. Ans	swer any	one full	question	from eac			
					Part- A						
PARTY.			**************************************	111. ASR 22. ASR 22. ASR	I al C-A	492.472 100.175		and the second	25 Marks)	g,	
	1.a)	List the types of	f computers	S.				`	[2]		
	b)	Give the format			d explain th	ne significa	ance of eac	ch field.	[3]		
650E4 60E4	c)	What is virtual	memory?	Kan when Helmond	82) HSS	Alle Alles Transmission	All IIII	100 100	[2]	Mil.	
F255 F2.	d)	Differentiate be	tween hard	wired∕cor	itròl unit ai	ıd micropr	ogramme	l control u		24275	
	e)	What is the diff				d asynchro	onous data	transfer?	[2]		
	f)	Define interrup		Francisco de la constantida del constantida de la constantida de la constantida del constantida de la constantida del constantida de la constantida del cons	Francisco de la Companya de la Compa				[3]		
	g)	What is a Syste				STATE.		ō:rī	[2]	NAMES OF STREET	
	h)	What are the ne				to occur?			[3]		
	i)	What is a Direc							[2]		
######################################	j)	How can you ju	istity the tre	ee space n	nanagemer	it give bett	er output?	55 275 23 25 23 25 25 25	[3]		
. ******		, the second				CATE TL	9672 N.	9499 Tr.	ANTE TO		
					Part-B			,	50 N/L1>		
	2 0)	Give a note on I	Villa ibralius Zinarina na€	m. Damsk	vantation			•	50 Marks)		
Sant.	2.a) b)	Give a note on l Explain about the			emanon.	POR CONTRACTOR	AND THE	ETHER HAPIT ME	[5+5]	2000 2000 1	
	U).	Explain about u	າດ ກຸດຈອກ ທ່	Luics.	OR				[2+3]		
	3.	Explain various	addressing	modes w		ec			[10]		
21,3121 22,2121 22,21212	٠.	5R 951	444	MIGGES W	ee ee	os.	\$%\$**2;	201 finds		614151 614151	
	4.a)	Describe the pri	nciple base	d on whic	h cache m	emory wor		**************************************		-49111 144	
	b)	Consider a cach	-			•		total of 2	048 words,		
en an her	,									as we.	
M:7 5.	and assume that the main memory is addressable by a 16-bit address. The main memory has 64K words which are divided into 8192 blocks of 8 words each. Find								P. 100-4		
		the number of	bits in Tag	g, Block	and word	field of t	he main	memory a	address for		
		direct mapping	scheme.						[5+5]		
South to			21 (1773) 21 (1773) 21 (1774)	991A	OR	1517 1911,	States States States	22, 1965 22, 201 201, 201			
	5.	Give a detailed	note on des	ign of mic	ero control	led unit.			[10]		
	_	D 11 1 1 1	C .1 11.00						_		
	6.	Describe in brie			es by whic			*** ***	101 0000	AP 11 A CO	
16000 0.		computer unit a	na itsalo ac	evices.		ŶŸ.		des Conditions	[10]	1017101	
	7.	Write short note	e on the fol	lowing	OR						
		a) IEEE 1394	9 OH ME 101	towing.							
		b) Serial Comm	unication	35-375- 57-53-	P. C. C.	200	2000		[5+5]	1905 1005	
		o, some			•				اديدا		
	8.a)	Draw and explai	n the role o	of TLB in	memory n	nanagemen	t.				
4.1.411	1-5			 1 C	<i>y</i>	0-2					

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b) Differentiate between a page and a frame



Sal).	9.a) List b) Brid	t and explainefly explain	in the diffn about O	erent types perating sys	of operati stems Gen	ng systems eration	OVALUE P	\$ 5 5 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	<b>[[5+5</b> ]	1920 1727 - 1
HELENAR HEELENAR HEELEN	b) Wri	te notes on	File mou	ile system	OR implemen	tation.	5-13 years 5-13 years 5-13 years 6-15 years 6-15 years	SEE SEE	[5+5]	
and the	## W	at are the a	uvamages	and disady	antages of	f linked allo	ocation?	0,85 25 425	[5+5]	, (2011)
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