Code No: 09A50506

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD

B. Tech III Year I Semester Examinations, May/June – 2013

Microprocessors and Interfacing (Computer Science and Engineering)

Time: 3 hours

BR

Max. Marks: 75

Answer any five questions All questions carry equal marks

1.a) b)	Explain the architec Discuss the following	ng addressing r	nodes of 8				
	i) Indexed	ii) Register	Relative		iii) Register.		[9+6]
						3.24	
2.	Write in detail about the following instructions with examples:						
	a) CMPSB	b) LODS			c) MOVSW		
	d) REPZ	e) SUBB.					[15]
성국		1994	1				
3.	Explain the working of DMA controller with a neat block diagram. [15]						
4.	Write an assembly language program to interface keyboard to 8086 processor						
	using 8255. Do the r	necessary initia	lizations.	7			[15]
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5.a)	Explain the sequence of events that happen when an interrupt signal is gi						
	8086 processor.						
b)	Draw the interrupt v	ector table stru	cture and	explain	1.		[15]
6.a)	Explain the difference between 20mA current loop and RS232-C standard.						
b)	Explain the registers	of 8251 USA	RT.				[15]
	\ \			a.K		14%	444
7.a)	Explain the internal RAM organization of 8051 controller.						
b)	Discuss in detail the	following inst	ructions o	f 8051:			
	i) SWAP		ii) DEC				
	iii) CJNE		iv) DJN	IZ.			[15]
8.a)	Differentiate between the timer and counter operations of 8051 controller.						
b)	Explain the level t						ind the
	necessary pins.				•		[15]
