Bharati Vidyapeeth's College of Engineering for Women, Pune.

Electronics and TeleCommunication Department

Unit Test I T.E. Academic Year: 2011-2012

Subject: MCA

Duration: 1 hour		Marks: 30			
Solve any Two					
1) A) Differentiate between Hardvard & von Neuman Architecture (8)					
B) Compare RISC and CISC	C Processor (7)				
2) A) State and explain different addressing modes of 8051.Illustrate with an example (8)					
B) Explain the instruction in	detail				
1) MOVX 2)SETB 3)DA A	4)CLR (7)				
3) A) Compare Microprocessor and Microcontroller in brief? (8)					
B) W.A.P for addition of 5 BCD numbers stored in RAM locations starting at 50H.Result must					
be a BCD	(7)				

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Unit Test II T.E. Academic Year: 2011-2012

Subject: MCA

oubject. MOA					
Duration: 1.5 hour	Marks: 50				
Solve any Two					
1) A) Explain 8051 port structure with neat diag.	(8)				
B) With the help of IE & IP registers, explain the i	nterrupt structure of 8051 (8)				
2) A) Explain the timer/counter control logic with a n	eat dia.Also explain the timer modes (8)				
B) W.A.P. to send message 'BVCOEW' to compered =11.0592MH (8)	ort of pc at 2400 baud rate.Assume XTAL				
3) A) Iterface 2 line,16 char LCD to 8051.Draw a ne Message 'Hello' on lcd (9)	at interfacing dia. & W.A.P to display a				
B) Explain the features of RS 232	(9)				
OR					
3) A) Explain the instruction in detail					
1) CJNE 2) ACALL 3) JNZ 4) JB 5) RRC	(9)				
B) W.A.P to interface an LED to pin P1.0 & flash XTAL=11.0592MH	it after every 1ms.Assume (9)				

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DEPARTMENT OF ELECTRONICS AND TELECOMMUNICTION

UNIT TEST-1 TIME: 1 HOUR

THIRD YEAR (T.E.) Marks-30

Micro Controller and Applications

Q.1	a) Compare Von Neumann and Hardvard architecture	(5)
	b) Compare RISC Vs CISC processor	(5)
	c) Explain in brief various resources of 8051	(5)
	OR	
Q.2	a) Compare microprocessor and microcontroller	(7)
	b) List various 8 bit microcontrollers with features of different families.	
Q.3	a)Interface 8K EPROM and 8K RAM to microcontroller 803 for the following addre	sses
	i) EPROM starting address - 0000H	
	ii) RAM starting address – A000H	(8)
	b)Explain the structure of 128 bytes of internal memory of MCS-51	(7)
	OR	
Q.4	a) Explain the interrupts for 8051 along with priority	(7)
	b) Explain timers in 8051. Find out Hex numbers to be loaded in timer produce delay of 1 msec?	register to

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UNIT TEST-2 TIME: 1 HOUR

THIRD YEAR (T.E.) Marks-30

Micro Controller and Applications

Q.1	Q.1 a) Explain different addressing modes with example			
	b) Explain the following instructions		(8)	
	1) LCALL & RET	2) MOVC A,@A+PC		
		OR		
Q.2	a) Explain the terms Simulator, Emula	ator, Cross assembler	(7)	
	b) Explain the following instructions		(8)	
	1) DJNZ R2, ADDRESS	2) MOVX @DPTR, A		
Q.3	a) Explain I2C bus standard.		(7)	
b)Write a program for interfacing LCD(5x7 matrix) and display a mess 8 bit mode also draw interfacing diagram			OME "	in
		OR		
Q.4	a) Compare RS 232 AND RS 485 Bus s	tandard	(7)	
	b) Explain the interfacing with steppe clockwise direction.	er motor and write a program to rotate the n	notor in t (8)	he