Program: BE Information Technology Curriculum Scheme: Rev2016 Examination: Third Year Semester V

Course Code:ITC501 and Course Name: Microcontroller and Embedded Programming
Time: 1 hour

Max. Marks: 50

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#### Note to the students:- All the Questions are compulsory and carry equal marks .

O1	Namo a valatila mamary		
Q1.	Name a volatile memory.		
Option A:	RAM		
Option B:	ROM		
Option C:	EPROM		
Option D:	EEPROM		
Q2.	Which signal is sampled at regular intervals for the purpose of DAC?		
Option A:	analog signal		
Option B:	digital signal		
Option C:	quantised signal		
Option D:	sampled signal		
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Q3.	PSEN stands for		
Option A:	Program Select Enable		
Option B:	Peripheral Store Enable		
Option C:	Program Store Enable		
Option D:	Peripheral Select Enable		
Q4.	Which of the following instruction comes under the indexed addressing mode?		
Option A:	MOVX A, @DPTR		
Option B:	MOVC A,@A+DPTR		
Option C:	MOV A,R0		
Option D:	MOV @R0,A		
Q5.	Bit-addressable memory locations are:		
Option A:	00H through 1FH		
Option B:	20H through 2FH		
Option C:	30H through 7FH		
Option D:	40H through 4FH		
Q6.	What is the relation between Crystal frequency f and Timer frequency		
Option A:	f/32		
Option B:	f/12		
Option C:	f/64		
Option D:	f/8		
1			
Q7.	Which of the following best states the reason that why baud rate is mentioned in		
	serial communication?		
Option A:	To know about the no of bits being transmitted per second		
Option B:	To make the two devices compatible with each other, so that the transmission		

	haraman and amentus		
O-4: C-	becomes easy and error free		
Option C:	To use Timer 1		
Option D:	For wasting memory		
00	Which his of the IE register is used to each be expelled as relative intermed		
Q8.	Which bit of the IE register is used to enable serial communication interrupt?		
Option A:	IE.D5		
Option B:	IE.D2		
Option C:	IE.D3		
Option D:	IE.D4		
Q9.	In 8051 which interrupt has highest priority?		
Option A:	RI/TI		
Option B:	TFO		
Option C:	INT1		
Option D:	TF1		
010			
Q10.	How many minimum number of pins are required to interface 64 keys to 8051		
Option A:	64 pins		
Option B:	8 pins		
Option C:	16 pins		
Option D:	32 pins		
Q11.	While programming the Successive Approximation type ADC 0804 what steps are followed?		
Option A:	Select the analog channel, start the conversion, monitor the conversion, display the digital results		
Option B:	select the analog channel, activate the ALE signal (L to H pulse), start the conversion, monitor the conversion, read the digital results		
Option C:	select the analog channel, activate the ALE signal (H to L pulse), start the		
_	conversion, monitor the conversion, read the digital results		
Option D:	select the channel, start the conversion, end the conversion		
Q12.	How many pins of the 8255 can be used as the I/O ports?		
Option A:	8		
Option B:	16		
Option C:	24		
Option D:	32		
0.1.0	ADM		
Q13.	ARM processor has bit address bus		
Option A:	8bit		
Option B:	16 bit		
Option C:	32 bit		
Option D:	64bit		
Q14.	The ARM7 uses which pipelining?		
Option A:	2-Stage		
Option B:	3-Stage		
Option C:	4-Stage		

	T = 0:		
Option D:	5-Stage		
015	Moved data true of ADNAT recent has signed the analysis of the analysis of		
Q15.	Word data type of ARM7 must begin at the address that is multiple of		
Option A:	2		
Option B:	8		
Option C:	16		
Option D:	4		
016			
Q16.	To invoke a subroutine which is written in thumb state, we used instruction		
Option A:	BL		
Option B:	BIC		
Option C:	BEQ		
Option D:	BLX		
Option D.	DEA .		
Q17.	In Arm Processor, Which register stores the return address to main program after		
Q17.	executing subroutine in CALL?		
Option A:	PC		
Option B:	LR		
Option C:	SP		
Option D:	flag		
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Q18.	What is the name of the operating system that reads and reacts in terms of		
	actual time.		
Option A:	Batch system		
Option B:	Quick response system		
Option C:	Real time system		
Option D:	Time sharing system		
Q19.	Some of the properties of real time systems include :		
Option A:	single purpose		
Option B:	inexpensively mass produced		
Option C:	small size		
Option D:	all of the mentioned		
Q20.	The becomes the name of the root of the newly mounted directory.		
Option A:	root of the previous directory		
Option B:	local directory		
Option C:	remote directory itself		
Option D:	•		
Q21.	When will file system fragmentation occur?		
Option A:	unused space or single file are not contiguous		
Option B:	used space is not contiguous		
Option C:	unused space is non-contiguous		
Option D:	multiple files are non-contiguous		
Q22.	What is the processor used by ARM7?		

Message Queuing Telemetry Transport	

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Question	Correct Option (Enter either 'A' or 'B' or 'C' or 'D')
Q1.	Α
Q2.	В
Q3.	С
Q4	В
Q5	В
Q6	В
Q7	В
Q8.	D
Q9.	В
Q10.	С
Q11.	В
Q12.	С
Q13.	С
Q14.	В
Q15.	D
Q16.	D
Q17.	В
Q18.	С
Q19.	D
Q20.	В
Q21.	Α
Q22.	С
Q23.	Α
Q24.	С

Q25. **C**