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 .

Q1.	Name a volatile memory.
Option A:	RAM
Option B:	ROM
Option C:	EPROM
Option C:	EEPROM
Option D.	EEFROW
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
Орион Б.	
Q3.	PSEN stands for
Option A:	Program Select Enable
Option B:	Peripheral Store Enable
Option C:	Program Store Enable
Option D:	Peripheral Select Enable
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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
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

Decomes easy and error free Option D: For wasting memory  Q8. Which bit of the IE register is used to enable serial communication interrupt? Option A: IE.D5 Option B: IE.D2 Option D: IE.D4  Q9. In 8051 which interrupt has highest priority? Option A: RI/TI Option B: TF0 Option A: INT1 Option D: TF1  Q10. How many minimum number of pins are required to interface 64 keys to 8051 Option A: 64 pins Option B: 8 pins Option B: 8 pins Option D: 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 D: 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  Q13. ARM processor has bit address bus Option B: 16 bit Option B: 16 bit Option D: 32 bit Option D: 64bit		
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Og.  Og.  Option A:  Option B:  IE.D2  Option D:  IE.D3  Option D:  IE.D4  Og.  In 8051 which interrupt has highest priority?  Option B:  TFO  Option B:  IFD  Option B:  TFO  Option C:  INT1  Option D:  IFD  Option D:  IFD  Option C:  INT1  Option D:  IFD  Option A:  Option A:  Option A:  Option B:  Sepins  Option B:  Option B:  Option C:  Option D:  Option C:  Option B:  Option C:  Option B:  Option C:  Select the analog channel, start the conversion, monitor the conversion, display the digital results  Option C:  Select the analog channel, activate the ALE signal (L to H pulse), start the conversion, monitor 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  Option D:  Select the channel, start the conversion, end the conversion  Option D:  ARM processor has bit address bus  Option A:  8bit  Option C:  32 bit		
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Option C: 32 bit	Option A:	8bit
1	Option B:	16 bit
Option D: 64bit	Option C:	32 bit
	Option D:	64bit
Q14. The ARM7 uses which pipelining?	Q14.	The ARM7 uses which pipelining?
Option A: 2-Stage	Option A:	2-Stage
Option B: 3-Stage	•	3-Stage
Option C: 4-Stage	Option C:	4-Stage

Ontion D.	Examination 2020 under cluster 4 (FCL)
Option D:	5-Stage
015	Word data type of ADM7 must begin at the address that is multiple 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
Q16.	To invoke a subroutine which is written in thumb state, we used instruction
0.4:	
Option A:	BL
Option B:	BIC
Option C:	BEQ
Option D:	BLX
0.15	Lie Arra Dasassan Wilsiah namista da di da
Q17.	In Arm Processor, Which register stores the return address to main program after
O.: 4: A .	executing subroutine in CALL?
Option A:	PC
Option B:	LR CD
Option C:	SP "
Option D:	flag
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
020	
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:	none of the mentioned
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 C. Option D:	multiple files are non-contiguous
орион D.	maniple nies are non-contiguous
Q22.	What is the processor used by ARM7?
	1 -1,

	<u>_</u>
Option A:	32-bit RISC
Option B:	8-bit RISC
Option C:	32-bit CISC
Option D:	8-bit CISC
Q23.	How many digital pins are there on the UNO board?
Option A:	14
Option B:	12
Option C:	16
Option D:	20
Q24.	Which one of the following has a real time clock?
Option A:	Arduino
Option B:	Rasberry Pi 3
Option C:	Galileo Gen 2
Option D:	Rasberry Pi
Q25.	MQTT stands for
Option A:	Management Queue Telemetry Transport
Option B:	Management Queuing Telemetry Transport
Option C:	Messaging Queue Telemetry Transport
Option D:	Message Queuing Telemetry Transport