Program: BE Biomedical Engineering

Curriculum Scheme: Revised 2016

Examination: Final Year Semester VII

Course Code: BMDLO7033 and Course Name: Embedded Systems

Time: 1 hour Max. Marks: 50

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

Q1.	The cost of manufacturing each unit in an embedded system is called		
Option A:	Engineering Cost		
Option B:	Manufacturing Cost		
Option C:	Marketing Cost		
Option D:	Embedded Cost		
<b>Option 2.</b>	Zinizedaea eest		
Q2.	Time taken in days or months to develop a prototype and in house testing of a system is called		
Option A:	Time to market		
Option B:	Prototype development type		
Option C:	Flexibility		
Option D:	Production Time		
Q3.	Changeability and Additions to the system is called as		
Option A:	Flexibility		
Option B:	Maintenance		
Option C:	Prototype		
Option D:	Time to Market		
Q4.	Cost of one product is called		
Option A:	Per unit cost		
Option B:	Revenue		
Option C:	Manufacturing Cost		
Option D:	Profit		
Q5.	In portable or hand held device such as cell phone, compared to 5V operation a		
	CMOS circuit power dissipation reduces by , in 2V operation		
Option A:	1/4 <sup>th</sup>		
Option B:	1/5 <sup>th</sup>		
Option C:	1/6 <sup>th</sup>		
Option D:	1/7 <sup>th</sup>		
Q6.	investigates the concurrent design of hardware and software components of complex electronic systems with the goal to optimize and/or satisfy design constraints such as cost, performance, and power of the		

	final product		
Option A:	System on Chip		
Option B:	Embedded processors		
Option C:	EDLC		
Option C:	Hardware/software co-design		
Option D.	Traituware/software co-design		
Q7.	Considering a component in a design is called as		
Option A:	Abstraction		
Option B:	Modular Design		
Option C:	Mapping		
Option D:	Programming		
00			
Q8.	are associated with the embedded system before it can be put in operation.		
Option A:	Non- Operational Quality Attributes		
Option B:	Operational Quality Attributes		
Option C:	Quality Attributes of embedded system		
Option D:	Design Metric		
Q9.	is the ability to modify the system after its initial release, especially by		
	designers who did not originally design the system		
Option A:	Maintainability		
Option B:	Flexibility		
Option C:	Correctness		
Option D:	Accuracy		
Q10.	Which of the following memory is more quickly accessed		
Option A:	RAM		
Option B:	CACHE Memory		
Option C:	Flash memory		
Option D:	secondary memory		
Q11.	logic levels of RS232 are		
Option A:	same as TTL levels		
Option B:	same as CMOS levels		
Option C:	3 to 15 v plus and minus		
Option D:	differential signaling		
Q12.	which of them is a serial communication?		
Option A:	UART, SPI and I2C		
Option B:	PCI		
Option C:	RS232		
Option D:	PCIX		
Option D.			
Q13.	what happens when a watchdog timer overflows?		
Option A:	system shutdown		
Option A.	System shutuown		

Option B:	system reset	
Option C:	system enters sleep mode	
Option D:	system executes nop instructions	
Q14.	Division by zero detection by hardware is	
Option A:	External hardware device interrupt	
Option B:	Internal hardware device interrupt	
Option C:	Software instruction related interrupt	
Option D:	Software error related interrupt	
Q15.	Which task swapping method does not require the time critical operations?	
Option A:	time slice	
Option B:	pre-emption	
Option C:	Co-oeprative multitasking	
Option D:	schedule algorithm	
Q16.	Which of the following determines the next task in the time slice method of task	
	swapping	
Option A:	scheduling program	
Option B:	scheduling application	
Option C:	scheduling algorithm	
Option D:	scheduling task	
Q17.	Suspending a task after saving the needed parameters due to the requirement of	
	inputs is said to be which task state?	
Option A:	Idle/Created	
Option B:	Ready/Active	
Option C:	Running	
Option D:	Blocked/Wait	
Q18.	Which task state has the memory de-allotted to its structure?	
Option A:	Ready/Active	
Option B:	Running	
Option C:	Blocked/Wait	
Option D:	Deleted/finished	
Q19.	Process which wants to access the shared resource acquires the system object as	
	an indication to other process wanting the shared resource is called	
Option A:	Semaphores	
Option B:	Queues	
Option C:	Scheduling	
Option D:	Round Robin	
Q20.	Semaphores that provides exclusive access to the shared resource by allocating	
	the resource to a single process at a time is called	
Option A:	Semaphore	

Option B:	Binary Semaphore	
Option C:	Counting Semaphore	
Option D:	Access Semaphore	
Q21.	A function that can be used with atomic instructions in that part of a funct that needs its complete execution before it can be interrupted is called	
Option A:	Reentrant function	
Option B:	Circular Queue	
Option C:	Circular Buffer	
Option D:	Circular Buffer	
Q22.	The SCL stands for a and this signal is always driven by the master device	
Option A:	serial clock line	
Option B:	Serial data line	
Option C:	Sequential clock line	
Option D:	Secondary clock line	
Q23.	The serial data is sent along the USB in, with opposite polarities on the	
	two signal lines	
Option A:	differential mode	
Option B:	Non differential mode	
Option C:	Common mode	
Option D:	Synchronous mode	
Q24.	Standby mode is one of the method of	
Option A:	Power Saving	
Option B:	Code Memory Saving	
Option C:	Data Memory Saving	
Option D:	Cost Reduction	
Q25.	Make sure that you are not using two functions to do the same thing is called as	
Option A:	Power Saving	
Option B:	Code Memory Saving	
Option C:	Data Memory Saving	
Option D:	Cost Reduction	

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

Q19.	А
Q20.	В
Q21.	А
Q22.	А
Q23.	А
Q24.	А
Q25.	В