BE	SOMVII, Electronics, FH2018 Q. P. Code: Embedded (3 Hours) Designotal Mar	11/05/18
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	Embedded (3 Hours) Designotal Mar	<s: 80<="" td=""></s:>
	1) Question no. 1 is compulsory	×.
	 Solve any three from the remaining five questions. 	
	 Assume suitable additional data if necessary. 	
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1	Q1) Answer the following questions.	(20)
•	(a)Compare CPLD/FPGA based embedded system with microcontroller based	
	(b)What could be use of RTOS in an embedded system? Justify use.	
	(c) Compare I2C and CAN communication protocol.	
	(d)Explain blue-tooth communication protocol.	
	Q2)	<i>i</i> ith
	(a)What issues may arise due to sharing of data in an embedded system? Give an example v	(10)
	solution.	(10)
	(b) What kind of C-programing strategies may help you lead to faster program?	(20)
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-	Q3) (a) What features of Cortex-M3 are specifically useful for (i) Low power consumption (ii) Rea	al time
	system (iii) RTOS support (iv)Debug support.	(10)
	(b) Compare Cortex-M3, Cortex-R4 and Cortex-A8.	(10)
	Q4)	
	(a)Interface (draw circuit diagram) of any input (error) and output interface with any	
Υ.	microcontroller. Explain its functioning.	(10)
	(b) Explain and compare any to scheduling method in RTOS.	(10)
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	Q5) Deign a media player (audio only) for following features.	(20)
	(i)Stored media	
	(ii)FM player	
	(iii)MP3 Encoding/Decoding processing support	
	(iv)Output speaker	
	(v)Display	using
·	Draw and explain using hardware and software building block required. Explain functioning	using
	appropriate modelling method.	
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	Q6) Write short notes on (ANY TWO)	(20)
	(a) List different uCOS-II functions used for (rtos) management task.	2 2
۰ .	(b) What may be effect of longer interrupt response time on real time behaviour of system (c) Present any case study which bring out advantage of ethical practice in any development	It.
	Cici Present any case study which bring out advantage of ethical practice in any development	

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