Total No. of Questions: 8]	SEAT No. :
P3940	[Total No. of Pages : 2

[5462] - 663

	M.E. (E & TC) (VLST and Embedded System)	
	EMBEDDED SYSTEM DESIGN	
	(2017 Credit Pattern) (Semester - I) (504203)	
	B Hours] [Max. Marks :5	0
ınsır ucu 1)	Answer any five questions from total eight questions.	
<i>2)</i>	Figures to the right side indicate full marks.	
<i>3)</i>	Assume suitable data if necessary.	
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Q1) a)	List the different design metrics for the embedded systems and explain	
• `	any four in detail. [5	
b)	Draw and explain the waterfall design model for the embedded system.[5	J
Q2) a)	Compare the different types of Processor technologies with the help different parameters. [5]	
b)	Compare the different types of development Platform Trends in term of IDE, board Details and applications. [5	
Q3) a)	Draw and explain the Cortex Microcontroller Software Interface Standard (CMSIS) structure of Cortex series. [5	
b)	Write down the features of Arduino Microcontroller and discuss its IDI and applications. [5	
Q4) a)	Explain the different features of LPC 1768 ARM Cortex. [5]]
b)	Explain the CAN protocol with suitable diagram and frame structur with reference to ARM M3 microcontroller. [5	_

- Q5) a) What is Embedded Linux? Explain development tools required for Linux application Development. [5]
 b) Compare the BIOS v/s Boot loader. [5]
- Q6) a) Explain how kernel initialization and space initialization is carried out in Embedded Linux.[5]
 - b) What are the different types of device drivers? Explain any one with reference to Embedded Linux. [5]
- Q7) a) Discuss an Automated Meter Reading (AMR) as embedded system case study with its design considerations.[5]
 - b) What is EMI/RFI analysis? Discuss steps involved in certification and documentation of EMI/RFI. [5]
- Q8) a) Design an embedded system for Digital Camera and explain its design and algorithm in detail.[5]
 - b) Explain testing process documentation carried out for embedded system? [5]

