Total N	lo. of	Questions	:8]
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SEAT No. :	
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P3056

[4660]-1193

[Total No. of Pages :2

M.E. (E&TC) (VLSI & Embedded Systems) EMBEDDED SYSTEM DESIGN

(2013 Credit Pattern) (Semester - I) (504103)

Time	e : 3	Hours] [Max. Marks :50
Instr	uctio	ons to the candidates:
	<i>1)</i>	Attempt any FIVE questions.
	<i>2)</i>	Neat diagrams must be drawn wherever necessary.
	3) Figures to the right indicate good marks.	
,	<i>4)</i>	Assume suitable data if necessary.
Q1)	a)	Explain Embedded system architecture & its aspects in detail. What are the different categories of embedded system? Give example of each category. [4]
	b)	Write a short note on various development tools used in Embedded system design. [3]
	c)	Define design metrics. Explain various design metrics used in embedded system. [3]
Q2)	a)	Discuss in detail V type life cycle model with its advantages, disadvantages and applications. [4]
	b)	Explain partitioning and decomposing a system in system design phase.[3]
	c)	Justify requirements specifications provides an external view of a system and explain requirement specifications of Embedded systems. [3]
Q3)	a)	Explain with block diagram & specifications ARM-9-TDMI processor.[5]
	b)	Explain the architectural support provided in ARM processor for development. [5]
Q4)	a)	Explain in details memory hierarchy & memory subsystem architecture. [4]
	b)	Write a note on I2C & SPI protocol? [3]
	c)	Explain JTAG boundary scan organization. [3]

Q 5)	a)	Explain Embedded Linux System architecture.	[4]
	b)	What is the role of bootloader. Explain process of bootloading.	[3]
	c)	Explain various storage considerations in embedded Linux.	[3]
Q6)	a)	What are different types of device drivers? Explain any one with reference mbedded Linux.	nce [5]
	b)	What do you mean by kernel initialization?	[5]
Q7)	a)	Explain Android architecture structure in details. manifest file.	[4]
	b)	Explain in detail advance operations with Android like telephony & SM	ИS. [3]
	c)	Explain Telephony and SMS for android operating system.	[3]
Q8)	a)	Explain various network services support provided by Android OS.	[4]
	b)	Write short note on APIs with reference to Android OS.	[3]
	c)	Explain content providers with reference to Android OS.	[3]