Total No. of Questions :	8]	SEAT No. :
P3963	[5561]-658	[Total No. of Pages : 2
B. E.	(Electronics & Tele Commu	ınication)
EI	ECTRONIC PRODUCT D	ESIGN
(201	5 Pattern) (Elective-II) (Sen	nester - I)

	20° 50°.	
Time : 27	[Max	x. Marks : 70
Instructi	ons to the candidates:	
1)	Answers the Q. 1 or Q. 2, Q. 3 or Q. 4, Q. 5 or Q. 6, Q.7 or Q.8.	
2)	Neat diagrams must be drawn wherever necessary.	
3)	Figures to the right side indicate full marks.	
4) 5)	Use of calculator is allowed. Assume suitable data if necessary.	
3)	Assume suitable data if necessary.	
Q1) a)	Write a short note on following:	[12]
	i) Cognition	
	ii) Safety	
	iii) Grounding	
b)	Explain in detail system partitioning.	[4]
c)	Discuss in brief about risk management in software testing.	[4]
()2) a)	Write short notes on:	[12]
Q2) a)	Write short notes on:	
	i) Black box test.	
	ii) White box test.	
	iii) Gray box test.	
b)	Discuss in detail user centered design.	[4]
c)	Explain in detail Ergonomics.	[4]
Q3) a)	Explain models, metrics and software limitations.	[8]
b)	What are the different types of PCB? Explain one.	[5]
c)	Explain grounding methodologies.	[5]
	OR OR	

Q 4)	a)	Discuss about PCB partitioning Design Rules for EMC improveme		
	b)	Explain waterfall model of software development.	[8] [5]	
	c)	What is Defect/Bug? What is defect life cycle?	[5]	
Q5)	a)	Explain EMI & EMC issues in detial.	[8]	
	b)	b) Differentiate between active components & passive components		
	c)	Explain techniques for Troubleshooting.	[4]	
		OR		
Q6)	a)	Explain Analog-Digital conversion in detail.	[8]	
	b)	Define debugging process and explain steps of debugging.	[8]	
Q 7)	a)	Define documentation & Explain the need of documentation.	[8]	
	b)	b) Write a short note on following:		
		i) Records	5	
		ii) Accountability OR		
Q8)	a)		[8]	
	b)	Write short note on any two of the following:	[8]	
		i) Liability		
		Write short note on any two of the following: i) Liability ii) Bill of material		

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