Total No	o. of Questions : 8]	SEAT No. :
P-605		[Total No. Of Pages : 2
		[10tal No. Of 1 ages . 2
	[6004]-554	
	B.E. (E&TC)	
ELE	CTRONIC PRODUCT DEVELOR	PMENT (Elective - IV)
	(404185B) (2019 Pattern) (S	
Time: 2	1/2 Hours]	[Max. Marks : 70
	ions to the candidates	•
1)	Neat diagrams must be drawn wherever necess	ary.
2)	Figures to the right indicate full marks.	290
3)	Use of logarithmic tables slide rule, mollier cl	harts, electronic pocket calculator
4)	and steam tables is allowed.	. S
<i>4</i>)	Assume suitable data, if necessary.	
Q1) a)	Explain the following terminologies:	[8]
	Risk Abatement and Failure Preventi	ons
	ii) Software Bugs and Testing	
	iii) Good programming practice	
b)	Explain software design with any case students	dy and design example. [9]
	OR	0
Q2) a)	Describe traditional software lifecycle with	n reference to Waterfall Model.
1 \		
b)	Illustrate prototyping model and spiral mo	[9]
	2.	
Q3) a)	Explain assembly and materials required w	
	of PCB.	[9]
b)	Explain configurations of routing topologi	es in PCB lavout designing[9]

OR Interpret the role of proper component placement in PCB **Q4**) a)

How can we improve reliability over failure in PCBs? [9] b)

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[9]

Q 5)	a)	What are the different steps in the debugging? Differentiate debugg from troubleshooting.	ing [9]	
	b)	Explain the following terms with example:	[9]	
		i) Prototyping and Testing		
		ii) Integration		
		iii) Validation and Verification		
		iv) Manufacturing		
		OR		
Q6)	a)	Define debugging process and explain steps of debugging.	[9]	
~	ŕ			
	b)	State the important parameters to be considered while selecting pass	ive,	
	1	active and switching components.	[9]	
Q7)	a)	Explain the need of documentation?	[8]	
21)	u)	Exprain the need of documentation.	[0]	
	b)	Explain with example what do you mean by preparation, presentation and		
		preservation of documents.	[9]	
		O R	3	
(10)	-)		. CO	
Q 8)	a)	Describe the need and types of documentation.	lo]	
	b)	What are the different methods of preservation of documents? Explain	.[9]	
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		6		
		6.		
		what are the different methods of preservation of documents? Explain		
[6004]-554				