Tota	1 No.	of Questions: 8]	\neg
		SEAT IV.	
P37	32	[Total No. of Pages [5461] 569	: 2
		B.E. (E & TC) (Elective - II)	
		Electronic Product Design	
		(2015 Pattern)	
Time: 2½ Hours] [Max.			
Insti		ions to the candidates:	
	1)	Neat diagrams must be drawn wherever necessary.	
	2)	Figures to the right indicate full marks.	
	3)	Attempt Q.No. 1 or 2, Q.No. 3 or 4, Q.No 5 or 6 & Q.No. 7 or 8.	
Q1)	a)	Discuss noise coupling mechanisms and how to minimize these at circ board.	uit [6]
	b)		[6]
	c)	In finding software faults in real time embedded system explain the feature	
	-)		[8]
		OR	_
<i>Q2)</i>	a)	What is need of shielding explain with suitable example?	[6]
	b)	What is importance of design specifications in product design?	[6]
	c)	Explain different stages in software development at which bugs m	ay
	ĺ		[8]
<i>Q3)</i>	a)	What are different sources of ESD and how to minimize ESD.	[8]
	b)	Write a short note on followings:	[0]
		i) Radiated and conducted Immunity.	
		ii) Grounding methodologies in PCB design.	
		OR	
<i>Q4</i>)	a)	Explain PCB termination techniques for high frequency design.	[6]
$\langle \hat{c} \rangle$	b)		[6]
	c)		[6]

Q5) a) Explain how different blocks are partitioned in complicated circuit. [6]

b) Explain how conducted EMI and radiated EMI originate. [4

c) What are the different steps in the debugging? Differentiate the troubleshooting from debugging? [6]

P.T.O.

		OR -
Q6)	a)	State importance of EMI/EMC test and give typical set up. [8]
	b)	Compare different types of ADCs with respect to resolution, power
		consumption, multiple inputs and nonlinearity. [8]
Q7)	a)	Explain in brief accountability and liability of documents in product design.
		[8]
	b)	What is importance of PCB fabrication drawing and wiring diagram. [8]
		OR
Q 8)	-	Differentiate schematic diagram and interconnection diagram. [8]
	b)	Write a short note on followings: [8]
		i) Engineering notebook.
		ii) Service manual.
	\	× · · · · · · · · · · · · · · · · · · ·
		25.
		Solo Solo Silvinia de la companya del companya de la companya del companya de la companya del companya de la companya de la companya del companya de la comp
~		CELLO DO
		6.

[5461] - 569