Total No. of Questions: 7]	SEAT No.:
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## [5255] 1044

<b>IV</b>	L.E.	(E)	lectronics / Electronics and Telecommunication)	
			RESEARCH METHODOLOGY	
			(2017 Pattern)	
Time :	: 3 H	ours	[Max. Marks	:50
Instru	ctio	ns to	the candidates:	
1	1)	Ansy	wer any five questions.	
2	2)	Supp	port your answer with neat diagram if necessary.	
3	3)	Figu	res to the right indicates full marks.	
4	<i>4)</i>	Assu	ime suitable data if necessary.	
<b>Q</b> 1) a	a)	Exp	lain briefly the different steps involved in a research Process	[5]
b	o)	Desc	cribe the difference between an experimental research and survey	[5]
<b>Q2)</b> a	a)	Disc	cuss problems encountered by researchers in our country	[5]
b	o)	Wha	at is research design? Give two functions of research design.	[5]
<b>Q</b> 3) a	a)	_	lain basic instrumentation scheme with example for experime arch.	ntal [ <b>5</b> ]
t	o)	Exp	lain with reference to measurements and statistical analysis	[5]
		i)	Measures of Skewness and	
		ii)	Measures of Relationship	
<b>Q4)</b> a	a)	_	lain the meaning of Analysis of variance (ANOVA) and explain eas of 'ONE WAY ANOVA'	ight [5]

i) Least Squares Estimation and Coefficients of determination. ii) Explain in brief 'Interpretation' in the contest of research methodology. [5] **Q5**) a) Explain the significance of research report and give the various steps in b) writing research report [5] How to write literature review to develop conceptual framework for **Q6**) a) research? [5] Explain the process of formulating the research problem b) [5] How to prepare Institutional Research Proposal to setup research and **Q7**) a) development cell in your institute? explain with example [5] What are the measures of evaluating the research outcome? b) [5] CENTON DIVINITION OF STATE OF

With reference to Simple Linear Regression analysis. Explain the terms -[5]

b)