Total No. of Questions: 8]	SEAT No.:	
P 4786	[Total No. of Pages : 2	

[5355]-624

M.E. (Electronics Digital Systems)

((Elec	ctronics and Telecommunication - VLSI and Embedded
Sys	tem,	, Microwave, Signal Processing, Communication Network)
		Research Methodology (2017 Pattern)
Time	e:3 H	Iours] [Max. Marks :50
Instr	ructio	ns to the candidates:
	<i>1)</i>	Answer any five questions.
	<i>2)</i>	Support your answer with neat diagram if necessary.
	3)	Figures to the right indicates full marks.
	4)	Assume suitable data, if necessary.
Q 1)	a)	How do you define a research problem? Give example to illustrate your answer. [5]
	b)	Explain the meaning of research hypothesis in contest of research design. [5]
<i>Q2)</i>	a)	Compare and contrast the different methods of collecting the data. [5]
	b)	Describe process of data coding and classification with example [5]
Q3)	a)	Explain the meaning of significance of the concept of standard error in sampling analysis in Research. [5]
	b)	Explain regression analysis with suitable example? [5]
Q4)	a)	Explain the meaning of Analysis of variance (ANOVA) and explain eight steps of 'ONE WAY ANOVA' [5]
	b)	Explain important characteristics of multivariate techniques, list multivariate techniques? [5]
Q5)	a)	What do you mean by principle component analysis explain in details.[5]
	b)	Describe in brief Layout of Research report covering all relevant points[5]

Q6)	6) Write short note on -			
	a)	Process of evaluating the Research	[5]	
	b)	Data collection and interpretation of data.	[5]	
07)	\		4	

- Describe How to prepare research proposal to setup innovation centre Q7) a) in your department? [5]
 - Describe in brief Bibliography & its importance in context of research b) report.
- How to write literature review to develop conceptual framework for *Q8*) a) research? [5]
 - Explain in brief'Interpretation' in the contest of research methodology. [5] b)

Strate of the st