Total No.	of Questions : 8] SEAT No. :
P-9564	[Total No. of Pages : 2
	Y. M.E. (Electronics)/(Digital Systems)/(E & TC) (Microwave)/(E & TC lot and Sensor System)/ Signal Processing)/(VLSI & Embedded System)/ (Wireless Communication Technology)/ (Communication Network) RESEARCH METHODOLOGY (2017 Pattern) (Semester - I) (504104)
Time: 3 H	
1) 1)	Answer any five questions out of eight questions
,	Figures to the right indicate full marks.
3)	Assume suitable data if necessary.
4)	Use of scientific calculator is allowed.
Q1) a)	What are Research Characteristics? [5]
b)	Compare Research methods verses Research Methodology. [5]
Q2) a)	Explain Objectives and types of research.
b)	Compare Quantitative Research verses Qualitative Research. [5]
Q3) a)	What is significant role of literature review in defining a problem? [5]
b)	Identify gap areas from literature review and Explain in detail. [5]
Q4) a)	How to Define the research problem? [5]
b)	Write short note on to publish a Research patent! [5]
Q5) a)	What is need of research design? [5]
b)	Explain steps in sample design and criteria for selecting sampling procedure. [5]

<i>Q6</i>)	a)	Explain technique of developing measurement tool and import scaling technique.	tant [5]
	b)	Explain methods of data collection in research and types of analys	is. [5]
Q7)	a)	Write a different steps in the preparation of thesis writing.	[5]
	b)	Explain any one tool for Documentation and presentation.	[5]
Q8)	a)	Write short note on Intellectual property rights and patent law.	[5]
	b)	Explain different types of technical papers.	[5]
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