

Total No. of Questions :8]

SEAT No. :

P3917

[5462]-631

[Total No. of Pages : 2

**M.E. (Electronics-Digital System) E & TC/VLSI and Embedded System/
Microwave/ Signal Processing/ Communication Network/**

**RESEARCH METHODOLOGY
(2017 Credit Course) (Semester - I)**

Time : 3 Hours]

[Max. Marks : 50

Instructions to the candidates:

- 1) *Answer any five questions.*
- 2) *Support your answer with neat diagram if necessary.*
- 3) *Figures to the right indicates full marks.*
- 4) *Assume suitable data, if necessary.*

- Q1)** a) What is necessity of defining a research problem? Explain with example. [5]
b) Explain the meaning of Experimental and control groups in contest of research design. [5]
- Q2)** a) How does the case study method is differ from the survey method. [5]
b) How will you treat the missing data? [5]
- Q3)** a) What are the characteristics of good hypothesis in research. [5]
b) Explain the meaning of analysis of variance with example. [5]
- Q4)** a) How to write literature review to develop conceptual framework for research? [5]
b) Explain the process of formulating the research problem. [5]
- Q5)** a) Justify the need of statistics for advance data analysis. [5]
b) Explain different types of descriptive research design. [5]

P.T.O.

Q6) Write short Note on.

- a) Objectives of Research. [5]
- b) State vector machines and uncertainty analysis. [5]

Q7) a) How to select appropriate tool for conducting research experiment/simulations. [5]

- b) How to evaluating the research outcome? [5]

Q8) a) Define hypotheses and state the functions of a hypotheses in research.[5]

- b) How to formulate and test the hypotheses? [5]

