[5462]-631

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]**

✠   ✠   ✠