Roll No. ☐☐☐☐☐☐☐☐☐☐☐   **Total No. of Pages : 01**

Total No. of Questions : 08

M.Tech. (EE)(2013 Onwards)/(Power System) (2013 & Onwards) (Sem.–1)
RESEARCH METHODOLOGY
Subject Code : MTRM-101
Paper ID : [E1360]

Time : 3 Hrs.   **Max. Marks : 100**

INSTRUCTIONS TO CANDIDATES :
1. **Attempt any FIVE questions out of EIGHT questions.**
2. **Each question carries TWENTY marks.**

Q1. Define a research proposal. What is meant by feasibility and preparation of research proposal? Further explain how is presentation carried out of a research proposal.

Q2. Discuss and differentiate between Descriptive and Experimental research in detail. Explain their respective uses in the research process.

Q3. Find the modal height and standard deviation from the following data of the students of a college :

Height (inches)	65	66	67	68	69	70	71	72
No. of Students	35	49	68	79	74	61	56	39

Q4. Estimate the value of Y, for X= 160

X	110	115	120	125	130	135	140	145
Y	77	80	93	71	98	62	116	124

Q5. Write notes on :

a) T-test

b) ANOVA technique.

Q6. Write notes on the following probability distributions:

a) Exponential distributions

b) Geometric distributions

c) Uniform distributions

Q7. Explain the importance of edition and tabulation of research results. Discuss the various measures available for presentation of research results, giving examples.

Q8. Discuss the significance of bibliography and references in a project report. How are references quoted? Further explain how bibliography is prepared for a research report.