Total No. of Questions : 08]   [Total No. of Pages : 01

Paper ID [IE502]

(Please fill this Paper ID in OMR Sheet)

M.Tech. (Sem. - 1st)

RESEARCH METHODOLOGY (IE-502)

Time : 03 Hours   Maximum Marks : 100

Instruction to Candidates:

1)   Attempt any **Five** questions.

2)   **All** questions carry equal marks.

Q1)   What is a research design? Explain the objectives of research. Also distinguish between historical and experimental research.

Q2)   How a research problem is defined? Describe the criteria of a good hypothesis alongwith the advantages of hypothesis.

Q3)   What do you understand by sampling? Explain various sampling techniques.

Q4)   What is meant by measurement. As a researcher what indicators of measurement accuracy would you insist on in a research report? Describe them.

Q5)   What do you mean by probability distribution? How exponential and normal distribution is applied in statistical analysis? Explain.

Q6)   What is analysis of variance? Write a note on regression and correlation analysis.

Q7)   What is editing and its necessity? Discuss the use of different software for statistical analysis.

Q8)   Write notes on :

   (a)   Report writing.

   (b)   Design of experiments.

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R-1057 [2058]

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