

Roll No.

Total No. of Pages : 01

Total No. of Questions : 08

M.Tech. (ME) (Sem.-2nd)

RESEARCH METHODOLOGY

Subject Code : MME-502

Paper ID : [E0402]

Time : 3 Hrs.

Max. Marks : 100

INSTRUCTION TO CANDIDATES :

1. Attempt any FIVE questions out of EIGHT questions.
2. Each question carry TWENTY marks.

1. Identify the research issue in the area of your choice and draft the research process in detail. (20)
2. What is Sample Design? What factors researcher should consider in developing a sample design for the research project? (4 + 16 = 20)
3. Describe the essential constituents of Research Proposal. (20)
4. Describe different types of sources of Primary Data Collection. (20)
5. What is Regression Analysis? When it is used? Describe the process of stepwise regression analysis. How the regression output is interpreted? (4 + 4 + 8 + 4 = 20)
6. a. State and explain standard normal distribution. What are the characteristics and applications of normal distribution? (4 + 6 = 10)
- b. How can Poisson distribution be approximated by the normal distribution? (6)
- c. Explain Central Limit Theorem. (4)
7. Briefly explain the essentials of different components of Research Report. (20)
8. Describe Randomized Block Design with a suitable example. Differentiate between completely randomized design and blocked design.

(15 + 5 = 20)

