

**M.Tech.****RESEARCH METHODOLOGY****SUBJECT CODE : IE - 502****Paper ID : [E0602]**

[Note : Please fill subject code and paper ID on OMR]

**Time : 03 Hours****Maximum Marks : 100****Instruction to Candidates:**

- 1) Attempt any Five questions.
- 2) All questions carry equal marks.

- Q1)** What are the basic ingredients of research design? Discuss. Explain different methods of research.
- Q2)** How a research problem is formulated. Discuss the formulation of hypothesis, its feasibility and the presentation of research problem.
- Q3)** What do you understand by primary and secondary data. How these data are collected and validated? Discuss.
- Q4)** What is meant by internal consistency and discrimination power in an attitude scale. Explain a suitable scale for measuring the attitude of workers towards their job and work environment.
- Q5)** What is probability. How binomial and normal distributions are applied in statistical analysis? Explain.
- Q6)** What are the basic principles of design of experiments. Discuss the randomized block design.
- Q7)** What is tabulation. How the statistical tables are prepared. Discuss the salient features of an ideal table used for presenting statistical data.
- Q8)** Write notes on :
- (a) Analysis of variance.
  - (b) Report writing.

