

**M.E. ARCHITECTURE, FIRST YEAR, FIRST SEMESTER EXAM 2018
INTRODUCTION TO RESEARCH METHODS & TECHNIQUES**

Time: 3 hours

Full marks: 100

Attempt four questions. All questions carry equal marks.

1. What is a research problem? To formulate the research problem, what are the main issues which should receive the attention of the researcher? Give any one example of Research problem to elucidate your points.
2. What are the different types of research? Discuss with example.
3. Explain research methods and research methodology? Narrate the differences between them with example.
4. Narrate the general guidelines for constructing appropriate and effective questionnaire or schedule for any research. What are the differences between survey and experiment used in research?
5. What do you mean by 'Sample Design'? What points should be taken into consideration by a researcher in developing a sample design for this research project. How would you differentiate between simple random sampling and complex random sampling designs?
6. What is the meaning of measurement in research? What difference does it make whether we measure in terms of a nominal, ordinal, interval or ratio scale? Explain giving examples. Point out the possible sources of error in measurement.
7. What are the essential components of a research report? Mention the different types of report, particularly pointing out the difference between a technical report and a popular report.