

Exam.Code:1005

Sub. Code: 35081

2125

M. E. (Information Technology)  
First Semester  
MEIT-1201: Research Methodology

Time allowed: 3 Hours

Max. Marks: 50

NOTE: Attempt five questions in all, including Question No. I which is compulsory and selecting two questions from each Part.

x-x-x

I	a) Define research. How is it different from information gathering? b) What do you understand by the term research hypothesis? Discuss in brief. c) What is meant by the term control in a research design? Discuss in brief. d) What is the difference between a research proposal and a research report? e) What is meant by descriptive statistics? Discuss in brief.	(02) (02) (02) (02) (02)
PART I		
II	a) What are the essential qualities of good research? Differentiate between qualitative and quantitative research. b) Discuss the key characteristics of correlational and experimental research. Also provide suitable examples for each.	(05) (05)
III	a) What is Ex-post facto research? Discuss with an example. Highlight its key characteristics. b) Briefly discuss the features of snowball sampling and quota sampling.	(04) (06)
IV	a) What are the steps involved in conducting a literature review? Discuss in brief. b) A researcher wishes to study "Cybersecurity awareness among college students." Suggest a suitable research design and sampling method.	(04) (06)
PART II		
V	a) Discuss the advantages and limitations of nominal and ordinal scales. b) Discuss the types and steps involved in writing a research report.	(05) (05)
VI	a) For a study on <i>employee performance in software companies</i> , suggest appropriate measuring instruments and justify your choice. b) Define mean, range, and standard deviation. Illustrate their computation with suitable examples.	(05) (05)
VII	a) What is plagiarism? Discuss its types and preventive measures. b) Discuss the steps involved in performing a one-way ANOVA.	(04) (06)

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