Exam.Code:1005
Sub. Code: 35081

2076

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) What do you understand by research methodology? Discuss in brief. b) What is the scope of review in research? Discuss in brief. c) Briefly discuss any two features of a good research design. d) What is the purpose of abstract and bibliography in a research report? e) Give two examples of descriptive statistical measures.	(02) (02) (02) (02) (02)
	PART I	
II	Explain in detail the various stages involved in the research process.	(10)
III	a) What are the various primary and secondary sources of literature relevant for research in IT? Discuss. b) Distinguish between formal and informal research designs with suitable examples.	(05) (05)
IV	a) What are the main considerations in selecting a research problem for a postgraduate dissertation in IT? Discuss. b) Discuss and differentiate between simple random sampling and cluster sampling. Provide examples for each.	(04) (06)
	PART II	
V	a) Discuss the similarities and differences between interval scale and ratio scale. How do they differ in terms of mathematical operations possible? b) Discuss the purpose and essential components of a research proposal.	(05) (05)
VI	a) For a study on *student satisfaction with e-learning systems*, suggest appropriate measuring instruments and justify your choice. b) Explain the characteristics and uses of the normal curve in statistical analysis.	(05) (05)
VII	a) Write a note on ethical issues related to research publications. b) Discuss the uses and procedure of the t-test.	(04) (06)

x-x-x