

Name.		Printed
Student Admn. No.:		Pages:01
End Term Examination (ETE), December 2021		
[Programme: Ph.D.] [Semester: I]		
Course Title: Research Methodology (Engineering)		Max Marks: 50
Course Code: RME701		Time: 3 hrs
Instructions:	1. Answer All the questions 2. Assume missing data suitably, if any	
Group A (5X2=10 Marks)		
1.	Distinguish between Research methods and Research methodology.	2
2.	Discuss the random and snowball sampling method.	2
3.	Briefly describe the different steps involved in a research process.	2
4.	Distinguish between rating and ranking scale with the help of suitable examples.	2
5.	Distinguish between probability and non-probability sampling.	2
GROUP B (4X5=20 Marks)		
6.	Select one conventional test strategy and explain it giving one example.	5
7.	Examine the need for the statistically designed experiments.	5
8.	Explain the basic principles are used in planning/designing an experiment.	5
9.	Identify the seven steps in any general experimentation procedure used in DOE.	5
GROUP C (2X10=20 Marks)		
10.	<p>Explain what quasi-experimental research is and distinguish it clearly from both experimental and correlational research.</p> <p style="text-align: center;">(or)</p> <p>A bank manager wants to have a profile of the individuals who have loan payments outstanding for 6 months and more. It would include details of their average age, earnings, nature of occupation, full-time/part-time employment status, and the like. This might help him to elicit further information or decide right away on the types of individuals who should be made ineligible for loans in the future.</p> <p>Prepare a questionnaire of 10 items to collect the data for the above study. There should be minimum 10 questions and prepare questionnaire using three nominal, two ordinal and five interval scale questions.</p>	10
11.	<p>Explain How many types of Research reports with examples? Discuss which steps followed to editing and evaluating the final draft</p> <p style="text-align: center;">(or)</p> <p>What are the epistemological and ontological grounds for the discipline? Explain when do researchers conduct literature Reviews?</p>	10