Name								Printed	
Student Admn. No.:								Pages:01	
End Term Examination (ETE), June 2023									
[Programme: Ph.D] [Semester: I]									
Course Title : Statistical Methods									Max Marks: 50
Course Code: RME703							Time: 3 hrs.		
Instructions: 1. Answer All the questions									
2. Assume missing data suitably, if any									
Group A (5X2=10 Marks)									
1.	Define sample space in a random experiment with a suitable example.								2
2.	Write the axiomatic definition of probability.								2
3	Write the full form of "SPSS" and "MATLAB".								2
4	Define any two measures of dispersion.								2
_	Find the mode for the following frequency distribution:								
5	X: 1 2	3	4	-	6 7	8			2
<i>f</i> : 4 9 16 25 22 15 7 3 GROUP B (4X5=20 Marks)									
6	Write the sample space for rolling two dice. If X denote the sum of numbers on the								5
0	upper face of two dice, then what will be the probability distribution of X.								
_	Fit a straight line by using least square method for the following data:								_
7	Age (X): 15		20	25	30	35	40		5
	Glucose level (65	79	75	83	81		
8	Explain the application of "SPSS" in statistical data analysis.								5
9	Write a short note on "MATLAB".								5
GROUP C (2X10=20 Marks)									
Calculate the arithmetic mean for the following frequency distribution:									
10	Class interval:	0-10	10-20	20-30	30-40	40-50	50-60	60-70	10
	Frequency:	5	9	18	32	20	12	4	
	Define correlation. Explain the various types of correlation. Also discuss the								
11	application of correlation in the real life.								10