

		ADM	ISSI	N NC	UMB	ER		

School of Computing Science and Engineering Bachelor of Technology in Computer Science and Engineering

Mid Term Examination - Nov 2023

Duration: 90 Minutes Max Marks: 50

Sem III - C1UC322T - Probability and Statistics

General Instructions

Answer to the specific question asked Draw neat, labelled diagrams wherever necessary Approved data hand books are allowed subject to verification by the Invigilator

State Baye's theorem of probability.	K2 (2)
If A,B,C are mutually exclusive events associated with a random experiment. P(B)=0.6P(A), P(C)=0.6P(A), then find P(A).	K1 (3)
From the following data compute standard deviation Mass in kg 60-62 63-65 66-68 69-71 72-74 No of students 5 18 42 27 8	K2 (4)
Compute Spearman's rank correlation coefficient from following data Person ABCDEFGHIJ Rank in Stat 9 10 6 5 7 2 4 8 1 3 Rank in Economics 1 2 3 4 5 6 7 8 9 10	K2 (6)
Find the mode from the following data. Age 0-6 6-12 12-18 18-24 24-30 30-36 36-42 Frequency 6 11 25 35 18 12 6	K3 (6)
From the following data calculate Karl-Pearson's coefficient of	K2 (0)
correlation. x 1 3 5 7 8 10 y 8 12 15 17 18 20	K3 (9)
x 1 3 5 7 8 10 y 8 12 15 17 18 20	K3 (9)
x 1 3 5 7 8 10	, ,

Find coefficient of correlation when lines of regression are 2x-9y+6=0 K4 (12) and x-2y+1=0