	ode: D 123234	Total 1	Pages:	2		Name:						
						Regis	ster No.					
	SECOND SEMESTER	(CUFYU	GP) DI	EGRE	E EXA	MINA	TION, A	PRIL 2	2025			
		(BB				- '/					
	BBA2CJ103 / BBA2	MN102 - F	OUND	ATIO	NS FOI	R BUSI	NESS AN	ALYTI	CS			
		2024 A	dmissi	on onw	ards							
Maxin	num Time: 2 Hours					Maxi	mum Mai	rks: 70				
			Section	n A		•						
	All Questions can be answ	wered. Eac	h Ques	tion ca	rries 3	marks	Ceiling: 2	4 Mark	ks)			
1	What is a Sample Space?											
2	Define Business Analytics.											
3	Define a Random Experiment.											
4	What is the purpose of Index Numbers?											
5	What is the meaning of Regression Analysis?											
6	What are Mutually Exclusive and Exhaustive Events?											
7	What are Parabolic and Logarithmic Trends?											
8	What is a Chi-Square Distribution											
9	What is Sampling and what is me	eant by a Sa	ample?									
10	What are Independent Events?		Section									
11	All Questions can be answ Briefly explain the various Proba									iques.		
12	What do you mean by a Time Se	ries? What	are the	Compo	nents o	f Time	Series?					
13	Three unbiased coins are tossed.	What is the	e probał	oility of	obtaini	ng:						
	(a) All heads											
	(b) 2 heads											
	(c) One head											
	(d) At least one head											
	(e) At least two head (f) At the most one head											
	* 7	llowing by	Simple	Aggreg	rate Me	thod:						
14	I Compute a Price Index for the fo		~									
14	Compute a Price Index for the for Commodity		С	D	E	F						
14		A B	C 10	D 25	40	50						
14	Commodity	A B 0 30										
14	Commodity Price in 1986 (₹) Price in 1991 (₹) 2 The Standard Deviation of two services \mathbb{R}^{2}	A B 0 30 5 30 amples of s	10 15 izes 10	25 35 and 14	40 45 from tw	50 55 vo norm		ions are	3.5 and	3.0		
15	Commodity Price in 1986 (₹) Price in 1991 (₹) 2 The Standard Deviation of two strespectively. Examine whether the	B 0 30 5 30 amples of s ne Standard	10 15 izes 10 Deviate	25 35 and 14 ion of t	40 45 from tw	50 55 vo normalation a	re equal.					
	Commodity Price in 1986 (₹) Price in 1991 (₹) 2 The Standard Deviation of two strespectively. Examine whether the In a cafe, the customer arrives at	B 0 30 5 30 amples of s ne Standard a mean rate	10 15 izes 10 Deviate of 2 pe	25 35 and 14 ion of t	40 45 from tw	50 55 vo normalation a	re equal.					
15 16	Commodity Price in 1986 (₹) Price in 1991 (₹) 2 The Standard Deviation of two strespectively. Examine whether the In a cafe, the customer arrives at in 1 minute using the Poisson distant.	B 0 30 5 30 amples of s ne Standard a mean rate stribution for	10 15 izes 10 Deviate of 2 pormula.	25 35 and 14 ion of t	40 45 from tw he Popu te. Find	50 55 vo normalation a	re equal.					
15	Commodity Price in 1986 (₹) Price in 1991 (₹) 2 The Standard Deviation of two strespectively. Examine whether the In a cafe, the customer arrives at	B 0 30 5 30 amples of s ne Standard a mean rate stribution for	10 15 izes 10 Deviate of 2 pormula.	25 35 and 14 ion of the minument wing da	40 45 from tw he Popu te. Find	50 55 yo normalation at the pro-	re equal.					

18	Calculate the Correlation Coefficient for the following data:														
	X = 21, 31, 25, 40, 47, 38 and $Y = 70, 55, 60, 78, 66, 80$														
Section C															
Answer any ONE. Each Question carries 10 marks (1x10=10 Marks)															
	Cal	Calculate the Rank Correlation Coefficient between marks assigned to 10 students by Judges X and Y.													
		Sl. No	1	2	3	4	5	6	7	8	9	10			
19		Mark	by Judge X	52	53	42	16	45	41	37	38	25	27		
		Mark	by Judge Y	65	68	43	38	77	48	35	30	25	50		
	Calculate the Regression Coefficient and obtain the Lines of Regression for the following data:														
20		X	1	2	3		4		5	6			7		
		Y	9	8	10		12	2	11		13		14		