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	SECOND SEMESTI	ER (CUFY	(UGP) D	EGREE	EXAMI	NATIO	N, APRI	L 2025			
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	BBA2MN102					ANALYT	ICS				
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ıaxıı	mum Time: 2 Hours		Secti	on A	I	Aaximum	Marks:	70			
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	All Questions can be		Each Que	estion car	ries 3 ma	rks (Ceili	ng: 24 M	arks)			
1	What is Marginal Probability?										
2	Define Business Analytics.										
3	What are the characteristics of a Normal Distribution?										
4	What do you mean by Population Parameters and Sample Statistics?										
5	Define Index Numbers.										
6	What is the purpose of the Student's t-Distribution?										
7	What is meant by Linear Regression?										
8	What is the Central Limit Theorem?										
9	What are Parabolic and Logarithmic Trends?										
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10		nowball San	_								
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			Secti	on B	ries 6 ma	rks (Ceili	ng: 36 M	arks)			
	What do you mean by the Sr	answered.	Secti Each Que	on B estion car		rks (Ceili	ng: 36 M	arks)			
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	Construct index number for price for the year 2007 with 2005 as the base year from the following data by taking quantities in the base year as weights:													
						005	5			2007				
16		Commodity		Price Quant			ntity	ity Price			Quantity			
		A		2		8			4			6	<u>, </u>	
		B		5		10			6		5			
		C		4		14			5		10			
		D		2		19		2				3		
17	On average, every one out of 10 telephones is found busy. Six telephone numbers are selected at random. Find the probability that four of them will be busy.													
	Compute	Karl Pearson's C				lation.					1			
18		Price	11	12	13	14	15	16	17	18	19	2	0	
		Demand (Rs)	30	29	25	24	24	24	24	21	18	1.	5	
	1				Sect	ion C								
		Answer any C	NE.	Each Q	uestion	carries	10 ma	rks (1x	10=10	Mark	(s)			
	Compute	4-year Moving Av	erage	s from t	he follo	wing da	ta:				7			
19		Year		2008	2009	2010	2011	2012	2 2013	3 20	014	2015		
		Profit (in Rs. '	(000)	100	120	150	160	190	210	35	50	415		
	You are given the following data.													
20								X	Y					
				Arithmetic Mean				36	85					
		Standard Deviation					11 8							
	The Correlation Coefficient between X and $Y = 0.66$ Find two regression equations and estimate the value of X when $Y = 75$.													