QP Code: D 112799				Total Pages: 2					Name:						
								Register No.							
FIRST SEMESTER UG DEGREE EXAMINA															
						(UGP)									
COP1MN109/COM1MN109: ESSENTIAL STATISTICS FOR BUSINESS ANALYTICS															
2024 Admission onwards															
Maximum Time :2 Hours Maximum Marks :70															
					Sect	ion A									
	All Question	can bo	e answe	ered. Ea	ch Que	stion c	arries 3	marks	(Ceiling	: 24 Ma	arks)				
1	What is sampling ?														
2	What are the methods of choosing a simple random sample ?														
3	What meaning and use of the concept of Degrees of Freedom?														
4	What are the uses of t test?														
5	What are regression lines?														
6	Distinguish between linear correlation and non-linear correlation														
7	What is a scatter Diagram?														
8	What are the assumptions of Z test?														
9	What are 'Cyclical variations' in a Time series analysis ?														
10															
						ion B									
	All Question							marks	(Ceiling	: 36 Ma	arks)				
11	Explain and evaluate Stratified random sampling method														
12	Explain the nature														
13	A sales manager v					t of purc	hase he	elps in in	creasin	g the sa	les of				
	his product. He no	te the to				_	I -		T _	T -	I				
	Shop No.	1	2	3	4	5	6	7	8	9	10	11			
	Sales before display	4500	5275	7235	6844	5991	6672	4943	7615	6148	5623	5154			
	Sales after display	4834	5010	7562	6957	6401	6423	5334	8004	6729	6277	5769			
	Difference(d)	-334	265	-327	-113	-410	249	-391	-389	-581	-654	-615			
	d = -300		C	2145	2										
	$d = -300$ $S_d = 314.53$ Is there sufficient evidence to conclude that display at point of purchase helps in increasing the sales of														
	his product?	VIUCIIU	0 10 001	ioluu c (I	iai uispi	ay at pt	on the	ui Oi Iast	ricips II	i iiioi c a	only ulb	Jaios VI			
14	Explain the nature	and us	es of Ch	ni squar	e test										
15															
16	What are the uses of correlation analysis? Explain the uses and implications of different Types of Regression														
17	Explain and evaluate Free Hand Curve method														
18						series a	nalysis	?							
18 What are the advantages and limitations of Time series analysis ? Section C															
Answer any ONE .Each Question carries 10 marks(1x10=10 Marks)															
19	Apply the technique							•			arieties	of wheat			
	in 3 blocks:														

1

			В	locks								
	<u>Varieties</u>	$\underline{\mathbf{X}}$	$\underline{\mathbf{Y}}$	<u> </u>	<u>Z</u>							
	A	10	9	4	8							
	В	7	7		6							
	C	8	5	4	4							
	D	5	4		4							
	Carry two-way analysis of variance											
20	The height and body weight of ten males are given below. Calculate the coefficient of correlation:											
	Height (inches)	65	68	62	70	65	72	67	66	68	70	
	Weight (pounds)	128	140	120	152	138	160	135	130	125	165	