## LOYOLA COLLEGE (AUTONOMOUS) CHENNAI – 600 034



Date: 26-04-2025

## **B.A.** DEGREE EXAMINATION – **ECONOMICS**

## FIRST SEMESTER – **APRIL 2025**



Max.: 100 Marks

## UEC1MC02 - STATISTICAL TOOLS FOR ECONOMICS

Dept. No.

Time: 01:00 PM - 04:00 PM												
	SECTION A - K1 & K2 (CO1)											
Q.No	Levels	Answer ALL the Questions									= 20)	
1		Define secondary data.										
2		Distinguish between primary data and Secondary data.										
3	K1	What do you us										
4		Recall the properties of a Good Average.										
5		What is meant	by M	easures of	Dispersion	n?						
6		Point out the uses of Quartiles for measuring Dispersion.										
7		Write a short n										
8	K2	Give formula f										
9		State the comp										
10		Give the names of difference methods of forecasting.										
SECTION B – K3 & K4 (CO2)												
		Answer ALL the Questions								(4 x 10 =	= 40)	
11		Explain the objects of classification.										
12		Represent the following data of a company by a suitable bar diagram.										
			YEAR			Sales (Rs in cores)						
		2008-2009 2009-2010					6					
		2010-2011					12					
			11-2012			10						
				12-2013				1:				
13	K3											
13		Find Mean and median from the following data:  Annual Expenditure (Rs1000)  No. of Families										
		Timua	40-59	(31000)		50						
		60-79					250					
		80-99					500					
		100-119					100					
		120-139 50										
[OR] Calculate the geometric mean from the data given below:-												
14		Marks	5	15	25	35	45	55	65	75		
		No. of	15	18	25	30	22	17	10	30		
		Students										
											_	

15		Calculate the Star	ndard I	Deviat	ion from t	he foll	owing c	lata;					
		Size of items						Frequency					
		06						03					
		07								06			
		08					09						
		09					13						
		10					08						
		11						05					
		12					04						
		[OR]											
16	K4	Calculate Karl Person's Coefficient of Correlation from the following data;											
		Roll no of Stude	Marks	Marks in physics			Marks in Chemistry						
		1				48			45				
		2			35			20					
		3				17			40				
		4				23			25				
		5			47			45					
17		Draw the trend line by Semi-average method using the given data											
- /		Year 1998			2000 2001		2001			2002	2003		
		Production in	253		260	255		266		259	264		
		(tonnes)											
							OR]						
18		Explain the vario	us type	es of C	Correlation	١.							
				SEC	TION C	- K5 &	x K6 (C	(O3)					
		Answer ALL the									$(2 \times 20 = 40)$		
19		Discuss the Natur	e and	scope	of Statisti	cs							
	K5	[OR]											
20		Calculate (i) Mea	n (ii)M	Iedian	and (iii) l	Mode f	or the f	ollowing	g data	Į.			
				10	10 20 30		40 50						
		No. of Students		03	08	17	20	22					
21		The profits (Y) of	f a com	npany	in the Xth	year o	f its life	e were o	bserv	ed to be a	as shown below,		
	K6	fit regression equ											
		Years of Life 1 (X)			2		3		4		5		
		Profit(Y)in Rs:0001	1,250	)	1400		1650		195	0	2500		
		[OR]											
22		Fit a Straight line trend equation to the following data by the method of least square and											
		estimate the value of sales for the year 1985.									1002		
		Year Sales in Rs	1979 100	)	1980		1981		198 160		1983 180		
					120		140						

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