## P P SAVANI UNIVERSITY

First Semester of MBA Examination December 2022

## SLMB7220 STATISTICAL ANALYSIS

22.12.2022, Thursday

Time: 09:00 a.m. To 11:30 a.m. Maximum Marks: 60

## Instructions:

- 1. The question paper comprises of two sections.
- Section I and II must be attempted in same answer sheets.
   Make suitable assumptions and draw neat figures wherever required.
- 4. Use of scientific calculator is allowed.

	SECTION - I									<u>co</u>	BLT
Q-1	Define fo	[05]	1	1							
(i)	Sample										
(ii)	Primary Data										
(iii)	Median										
(iv)	Ordinal D										
(v)	Population										
(vi)	Pie chart										
(vii)	Ogive										
Q-2(a)	Explain measurement of scale in detail.										2
Q-2(b)	Explain Skewness and Kurtosis in detail.										2
Q-2(a)	Calculate	the coeff	icient of c	corelation	(r) of foll	lowing da	nta.		[10]	2	5
	X	4	6	7	11	14	17	21			
	Y	18	12	13	8	7	7	4			
Q - 3 (a)	Explain h	ypothesis	s testing i	n detail.					[05]	1	2
Q - 3 (b)	Explain Type - I and Type - II error in detail.										2
	OR										
Q - 3	Construct the equation for regression line.								[10]	2	6
	X	140	119	103	91	65	29	24			
	Y	25	29	46	70	88	112	128	1		
Q - 4 (i)	(i) Explain different types of charts and graphs.									1	2 2
(11)	(ii) Explain measurement of central tendency.  SECTION – II										
Q - 1 (i) (ii)	Define for Hypothes Mean	[05]	1	1							
(iii)	Interval d	lata									

(iv)	Type - II error													
(v) (vi) (vii)	Mode Line diagr Scatter dia		1											
Q-2(a)	Differentiate between correlation and regression analysis.										[05]	1	4	
Q-2(b)	What is the meaning of regression analysis? Explain it in detail.										[05]	1	2	
	OR ,													
Q-2	Four experiments were conducted to determine the moisture content i									content in	[10]	3	4	
	sample of four types of wheats grown in five different blocks. Using test of													
	significant whether the average moisture of all the four varieties differ													
	significantly from the following observations.													
	Blocks		Varieties						1					
			A			В		C		D				
	1		16			14		19		20				
	2			20		23		11		27				
	3	3 26 4 12			24	23				16				
	4				29		17			21				
	5		21			25		20		13				
Q-3	Find the value of mean median and mode of following data.								[10]	2	5			
	C.I	_	0-10 10-20								50 - 60			
	Fre		4	16		20		30 17		7 13				
	OR													
Q-3	Find the value of mean and medium of following data.											[10]	2	5
	Class Frequency													
	0-2							1						
	3-5	4												
	6-8	all in				7								
Q-4	Attempt a	nvoi	1e							1 0 0				
(i)	Find the value of mean, medium and mode of following data.											[05]	2	5
	5 15	-	20	20	15	19			55	45	100			-
(11)		cc												
(ii)	Explain co	ettici	ent of	determ		****						[05]	1	2
						******								
C	O : Cou	rse O	utcom	ne Numb	er		В	TL : F	Blooms	s Tax	onomy Leve	el		
											,			
Level of Blo		ed Ta	xonon	ny in As	sessme	ent								
1: Remembe		2: Understand 3: Apply												
4: Analyze				5: Evaluate 6: Create										