-		VCD 10423 FYFM SEM II Business Statistics 2.5	hrs 75 marks	
	(1) Al (2) F	All questions are compulsory subject to internal choice. Figures to right indicate full marks.		
0.1	A)	Fill in blanks choosing the correct alternative: (Any eight)		
	1)	The most appropriate diagram to represent the data relating to	de a anti-le annualitano	(8
		different items by a family is	the monthly expenditure	
		a) Pie diagram (b) line graph (c) rectangular diagram (d) frequ	ional auria	
	2)	If there are extreme values present in the data, the following n	neacure is suitable	
		a) Arithmetic mean b) Median	icasure is surrante	
		c) Mode d) None of these		
	3)	The process of collecting data is called		
		a) Survey b) Samples c) Population	d) None of these.	
	4)	The word 'mean' or 'average' only refer to:	d) Hone of these.	
		(a) Arithmetic mean (b) Median		
		(c)Range (d) Mode		
	5)	Two regression coefficients are of sign		
		a) Same b) different		
		c) both (a) and (b) d) None of these		
	6)		relation.	
		(a) positive (b)negative (c)No (d)inverse		
	7)	The regression lines cut each other at		
		(a) \overline{x} (b) \overline{x} and \overline{y} (c) \overline{y} (d) (0,0)		
	8)	The information is to be collected from educated people in a la	arge area, suitable	
		method shall be		
		(a) sensus (b) Questionnaire		
		(c) Direct persona investigation (d) Through correspondent	is	
	9)	The most repeated value in the given data set is called		
		(a) Range (b) Mode (c) IQR (d) Median		
	10)	Cumulative frequency curve can be used for the collection of	Chill STREET	
		a) Mean b) Median		
		c) Mode d) Geometric mean.		
P) S	tate Tre	rue or False: (Any seven)	San Charles	7
		er-quartile range is based on only two values.		(7)
		regression coefficient always have the same sign.		
		an be located using pie diagram.		
-		ure of spread or scatter of data is called measure of dispersion.		
		as are useful in drawing attention of the public.		
		complied through various published or unpublished sources is kn	noum as primary data	
7) Di	a diagra	ram is a circle divided into sectors.	iown as primary data.	
		regression coefficients are 0.8 and 0.2 then correlation coefficien	tic O.A	
		be more than one modal values in a data set	115 0.4	
		, there is perfect positive relationship between the two given varia	phlas	
10) 1	1 1, 1	, there is perfect positive relationship between the two given varia	ioles.	

CD	FYFM	SEM II B	usiness St.	atistics	2.5 hrs	13	marks		
2.2] A) Calcula	ate arithme	tic mean and	mode for	the foll	lowing data	a:			
Total Control							1200-140	0 1400-1600	
Class nterval	400-600	600-800	-800 800-1		1000-120			10	-
The same of the sa	y 5 10		0 30		25		20	119	
B) Find the me	edian for th	ve following	grouped c	lata.					(7)
			grouped c	-	-	12-1	6	16-20	
Class ntervals	0-4	4-8	4-8		8-12				-
requency	2	6		10		14		18	
) Calculate m	oue for the	Tonowing a			T	_	66 110		
7 37 3									(8)
() Calculate m	OUR DOLLIN	TOHOWHIE G	The second secon		0 70-90				
Class	10 - 30	30 - 50		70	70 - 90		90 - 110		
Class nterval	10 - 30	30 - 50	50 - 7	70		•	90 - 110		
class nterval requency	10 - 30	30 - 50	26		33				(7)
Class Interval Frequency O) Find range,	10 - 30 12 arithmetic	30 - 50 20 mean and m 50 ,5	26 dedian for 5, 57, 49,	the foll 54, 61,	33 owing data 64, 69, 58 lata:	, 56	11		(7)
Class nterval requency D) Find range, Q.3] A) Find the Class interval	10 - 30 12 arithmetic he standard 0-5	30 - 50 20 mean and m 50 ,5	26 edian for 5, 57, 49, or the follow	the foll 54, 61, owing o	33 owing data 64, 69, 58 lata:	15-3	11	20-25	
Class Interval Frequency D) Find range, Q.3] A) Find the Class interval	10 - 30 12 arithmetic he standard	30 - 50 20 mean and m 50 ,5	26 edian for 5, 57, 49, or the follow	the foll 54, 61,	33 owing data 64, 69, 58 lata:	, 56	11	20-25	
Class Interval Prequency D) Find range, Q.3] A) Find the Class interval Prequency	10 - 30 12 arithmetic he standard 0-5	30 - 50 20 mean and m 50 ,5 I deviation fo	26 redian for 5, 57, 49, or the follow	the foll 54, 61, owing o	33 owing data 64, 69, 58 lata:	15-3	11	3	
Class Interval Prequency D) Find range, Q.3] A) Find the Class interval Prequency B) Draw a hist	10 - 30 12 arithmetic he standard 0-5	30 - 50 20 mean and m 50 ,5 I deviation fo	26 ledian for 5, 57, 49, or the follo	the foll 54, 61, owing o	33 owing data 64, 69, 58 lata:	15-3	11	3	(8)
Class nterval Prequency D) Find range, Q.3] A) Find the Class interval Prequency B) Draw a hist Class interval	10 - 30 12 arithmetic he standard 0-5 2 ogram for	30 - 50 20 mean and m 50 ,5 I deviation for 3 the following	26 ledian for 5, 57, 49, or the follo	the foll 54, 61, owing o	33 owing data 64, 69, 58 lata:	15-	20	3	(8)
C) Calculate m Class Interval Frequency D) Find range, Q.3] A) Find the Class interval Frequency B) Draw a hist Class interval Frequency OR C) Write less the curve and local	arithmetic he standard 0-5 2 ogram for 60-70 2	mean and m 50 ,5 I deviation for 5-10 3 70-8 5 ore than cum	26 ledian for 5, 57, 49, or the following data	the foll 54, 61, owing 6	33 owing data 64, 69, 58 lata:	, 56 15-3 5 90- 7	20	3	(8)
Class Interval Frequency D) Find range, Q.3] A) Find the Class interval Frequency B) Draw a hist Class interval Frequency OR C) Write less the Class interval	arithmetic he standard 0-5 2 ogram for 60-70 2	mean and m 50 ,5 I deviation for 5-10 3 70-8 5 ore than cum	26 ledian for 5, 57, 49, or the following data	the foll 54, 61, owing of 10-1: 7	33 owing data 64, 69, 58 lata:	, 56 15-3 5 90- 7	20	3 100-110 5	(8) (7)

D) The average marks of group of 100 students in a accounting are 60 and for another group of 50 students the average marks are 90. Find the average marks of combined group of 150 students. (7)

JAL	alculate coeffi	cient of c	orrelation	n by met	hod of Sp	earman's	s Rank co	orrelation		(8)
	44	49	52	52	47	76	65	60	63	58
	48	58	45	60	43	80	58	50	77	46
$\sum X$	Carl Pearson's $z = 65$, $\sum Y = 3$, $z^2 = 3261$, $\sum Y$	0, ∑XY =	= 750	relation g	given for	the follow	ving data			(7)
nit A pe	nufacturer has r week. The m er unit of A ar 8 and of B is 1	narket can nd 3 hours	not abso	rb more of B. In	than 20 u all 100 ho	nits of B ours are a	per week vailable p	The ma	The pro	ne require
D) Solve	e the following	LPP gray	phically.							(7)
Minimiz Subject t		> 12								
O.5A) V	What is mean b	v correlat	ion? With	h respect	to the va	lues of co	efficient	of correla	ation exp	olain
	types of correl	lation in b	rief.							(8)
B)	What is randor	n samplin	g? Explai	in the dif	ferent me	thods of	selecting	a randon	sample.	. (7)
OR										
C) V	Vrite short no Write short no Merits and der What is a ogiv	te on grap merits of N e curve? \	hs and di Mode. What are	agrams.	ypes of o	give curv	es? Expla	ain.		(15)
2) 3) 4)	Write limitation			mean.						