LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

U.G. DEGREE EXAMINATION – **ALLIED**

SECOND SEMESTER – **APRIL 2022**

UST 2301 – BUSINESS STATISTICS

(21 BATCH ONLY)

Max.: 100 Marks

Date: 27-06-2022 Dept. No. Time: 01:00 PM - 04:00 PM

	SECTION A			
Ans	wer ALL the Questions			
1.	Define the following			
		(5 x 1	= 5)
a)	Give two features of a good average.		K1	CO1
b)	What is an unbalanced Transportation Problem	m?	K1	CO1
c)	Define Range.		K1	CO1
d)	Explain Kurtosis.		K 1	CO1
e)	List the components of a time series.		K1	CO1
2.	Fill in the blanks		(5 x 1	= 5)
a)	Correlation coefficient lies between		K1	CO1
b)	Mean deviation is minimum when deviations a	are taken from	K1	CO1
c)	Harmonic mean is the of the A.N observations of a dataset.	<i>I</i> of the reciprocal of the	K1	CO1
d)	Graphical method of solving L.P.P is useful w variables are	hen the numbers of	K1	CO1
e)	Independent variable is normally denoted as _	·	K1	CO1
3.	Match the following			
		(5	5 x 1	= 5)
a)	γ ₂ 1. Momen quantity	t about an arbitrary	K2	CO1
b)	β ₀ 2. β ₂ -3		K2	CO1
c)	Measuring Trend 3. Median	Ì	K2	CO1
d)	Second Quartile 4. Method	d of semi averages	K2	CO1
e)	Raw moments5. Interce	ept of a model equation	K2	CO1
4.	TRUE or FALSE	(5	x 1 =	= 5)
a)	Harmonic mean is used when the data are give	en in terms of rates.	K2	CO1
b)	For a symmetric distribution, mean=median=n	node	K2	CO1
c)	For a set of observations, Mean-Mode = 3(Me	an-Median)	K2	CO1
d)	The collection of all plausible solutions to an L region.	P.P is called feasible	К2	CO1

					SEC	CTION	В						
A			41 f -		_		-				14	4 0	_ 001
Ans	wer any T	WO of	the to	llowing	g						(2	2 x 10	= 20
5.	Comput	e arithm	netic m	ean fo	r the fo	llowing	data	using	g sh	ort-cut	t	K3	CO2
	Compute arithmetic mean for the following data using short-cut method.												
	X 0	1	2	3	4	5	6	7		8	9 10		
	f 2 8 43 133 207 260 213 120 54 9 1												
6.	From the following data of the sales figures determine the trend line										K3	CO2	
	by froob	and our		thod		C							
	by freeh		veme	unou.								_	
	Years	1978	'79	'80	'81	'82	'83	'8	4	'85	'86		
		10/0	10			02	00			00			
			00	70	400	00	400			110	100		
	Sales	60	80	70	100	80	120	11	10	140	130		
7.	Explain	l types of	l f correl	l ation o		nt with	tha l	l noln r	nf en	attor		 	CO2
1.	diagram	• •				ZIIL VVILI		ieih (50	audi			
8.	Below a		n the t	figures	of pro	duction	n(in th	ากแระ	and	auinta	ls) of a	K3	CO2
0.	sugar fa	-		iguico		adolloi	1(111-0	10050		quinta	10) 01 u		
	: ougui iu	otory.										1	
		1999	200	0 2	001	2002	20	03	200	04	2005		
	Year	1999 80	200		001 2	2002	20 94		20(98		2005 92		
	Year Prod.	80	90	9		2002 83	20 94		200 98		2005 92		
	Year Prod. i) Fit a s	80 traight l	90 ine tre	9 nd.	2	83	94		98				
	Year Prod. i) Fit a s ii)Plot th	80 traight l e figure	90 ine tre s in the	9 nd. e grapł	2 n and s	83	94		98				
	Year Prod. i) Fit a s	80 traight l e figure	90 ine tre s in the	9 nd. e grapł	2 n and s n 2010.	83	94 e trer		98				
Δηοι	Year Prod. i) Fit a s ii)Plot th iii) Estim	80 traight l e figure nate the	90 ine tre s in the produ	9 nd. e grapł ction ir	2 n and s n 2010. SE(83 how th	94 e trer		98		92		- 20
Ansv	Year Prod. i) Fit a s ii)Plot th iii) Estim	80 traight I e figure nate the WO of	90 ine tre s in the produ the fo	9 nd. e graph ction ir	2 n and s n 2010. SE(g	83 how th CTION	94 e trer C	nd line	98 e		92	2 x 10	
Ansv 9.	Year Prod. i) Fit a s ii)Plot th iii) Estim wer any T Calculat	80 traight I e figure hate the WO of the the th	90 ine tre s in the produ the fo	9 nd. e graph ction ir	2 n and s n 2010. SE(g	83 how th CTION	94 e trer C	nd line	98 e		92		
	Year Prod. i) Fit a s ii)Plot th iii) Estim wer any 1 Calculat no.of stu	80 traight I e figure hate the WO of the the th	90 ine tree produ the fo	9 nd. e graph ction ir llowin artiles	2 n and s n 2010. SEC g from th	83 how th CTION	94 e trer C	nd line data	98 e		92 (2 and the		
	Year Prod. i) Fit a s ii)Plot th iii) Estim wer any T Calculat	80 traight I e figure hate the WO of the the the udents.	90 ine trep s in the produ the fo tree qu 10-	9 nd. e graph ction ir Ilowin artiles 20-	2 n and s 2010. SEC g from th	83 how th CTION ne follo	94 e trer C wing	nd line data 50-	98 e of n	narks -	92 (2 and the 70-		
	Year Prod. i) Fit a s ii)Plot th iii) Estim wer any T Calculat no.of stu <i>Mark</i> s	80 traight I e figure nate the WO of e the the udents. 0-10	90 ine tree produ the fo iree qu 10- 20	9 nd. e graph ction ir Ilowin artiles 20- 30	2 n and s 2010. SEC g from th - 30 40	83 how th CTION ne follo	94 e trer C wing	data 50- 60	98 e of n	narks - 60- 70	92 (2 and the 70- 80		
9.	Year Prod. i) Fit a s ii)Plot th iii) Estim wer any T Calculat no.of stu Mark s Freq.	80 traight I e figure nate the WO of the the the udents. 0-10 5	90 ine trep produ the fo aree qu 10- 20 7	9 nd. e graph ction ir Ilowin artiles 20- 30 8	2 n and s 2010. SEC g from th - 30 40 12	83 how th CTION ne follo	94 e trer C wing 0- 50 28	nd line data 50- 60 22	98 Ə	narks : 60- 70 10	92 (2 and the 70- 80 8	K4	CO3
	Year Prod. i) Fit a s ii)Plot th iii) Estim wer any T Calculat no.of stu Mark s Freq. Ten con	80 traight I e figure nate the WO of e the the udents. 0-10 5 npetitors	90 ine trep produ the fo aree qu 10- 20 7	9 nd. e graph ction ir Ilowin artiles 20- 30 8	2 n and s 2010. SEC g from th - 30 40 12	83 how th CTION ne follo	94 e trer C wing 0- 50 28	nd line data 50- 60 22	98 Ə	narks : 60- 70 10	92 (2 and the 70- 80 8		CO3
9.	Year Prod. i) Fit a s ii)Plot th iii) Estim wer any T Calculat no.of stu Mark s Freq. Ten con following	80 traight I e figure nate the WO of e the the udents. 0-10 5 npetitors g order:	90 ine tree produ the fo ree qu 10- 20 7 s in a b	9 nd. e graph ction ir Ilowin artiles 20- 30 8 eauty	2 n and s 2010. SEC g from th 30 40 12 contest	83 how th CTION ne follo	94 e trer C wing 0- 50 28 inked	data 50- 60 22 by th	98 e of n	60- 70 10 judges	92 (2 and the 70- 80 8 s in the	K4	CO3
9.	Year Prod. i) Fit a s ii)Plot th iii) Estim wer any T Calculat no.of stu Mark s Freq. Ten con following Judge	80 traight I e figure nate the WO of e the th udents. 0-10 5 npetitors g order: 1 1	90 ine trep s in the produ the fo the fo 10- 20 7 s in a b 4	9 nd. e graph ction in Ilowing artiles 20- 30 8 9 9 6	2 n and s 2010. SEC g from th 30 40 12 contest 3 2	83 how th CTION ne follo 2 2 2 t are ra 9	94 e trer C 0- 50 28 inked	data 50- 60 22 by th	98 e of n iree 3	narks 60- 70 10 judge:	92 (2 and the 70- 80 8 s in the 5	K4	CO3
9.	Year Prod. i) Fit a s ii)Plot th iii) Estim wer any T Calculat no.of stu Mark s Freq. Ten con following Judge Judge	80 traight I e figure nate the WO of e the the udents. 0-10 5 npetitors g order: 1 1 2 2	90 ine tre produ the fo ree qu 10- 20 7 s in a b 4 6	9 nd. e graph ction in Ilowin artiles 20- 30 30 6 5	2 n and s 2010. SEC g from th 30 40 12 contest 3 2 4 7	83 how th CTION ne follo 2 4 2 4 2 2 4 3 4 4 2 2 4 4 2 4 4 2 4 4 2 4 4 1 10	94 e trer C 0- 50 28 inked 7 9	data 50- 60 22 by th	98 e of n iree 3 3	narks 60- 70 10 judges 10 8	92 (2 and the 70- 80 8 s in the	K4	CO3
9.	Year Prod. i) Fit a s ii)Plot th iii) Estim wer any 1 Calculat no.of stu Mark s Freq. Ten con following Judge Judge	80 traight I e figure nate the mate the WO of e the the udents. 0-10 5 order: 1 2 2 3 3	90 ine trep s in the produ the fo aree qu 10- 20 7 s in a b 4 6 7	9 nd. e graph ction in Ilowing artiles 20- 30 8 9 6 5 4	2 n and s 2010. SEC g from th 30 40 20 30 20 40 71 50 50 10	83 how th CTION D- 4 2 2 1 are ra 9 10 0 8	94 e trer C 0- 50 28 unked 7 9 9	data 50- 60 22 by th	98 e of n ree 3 3	narks 60- 70 10 judges 10 8 6	92 (2 and the 70- 80 8 s in the 5 1 1	K4	CO3
9.	Year Prod. i) Fit a s ii)Plot th iii) Estim wer any T Calculat no.of stu Mark s Freq. Ten con following Judge Judge Use the	80 traight I e figure nate the TWO of e the the 0-10 5 npetitors g order: 1 1 2 2 3 3 method	90 ine trep ine trep s in the produ the fo inee qu 10- 20 7 s in a b 4 6 7 I of rar	9 nd. e graph ction ir Ilowing artiles 20- 30 20- 30 6 5 4 ik corre	2 n and s 2010. SEC g from th 30 40 12 contest 32 4 7 5 10 elation	83 how th CTION ne follo 0 4 2 2 2 2 1 are rational states of the	94 e trer C 0- 50 28 inked 7 9 9 9	data 50- 60 22 by th	98 e of n iree 3 3 2 ain w	narks 60- 70 10 judges 10 8 6 vhich p	92 (2 and the 70- 80 8 s in the 5 1 1	K4	CO3
9.	Year Prod. i) Fit a s ii)Plot th iii) Estim wer any T Calculat no.of stu Mark S Freq. Ten con following Judge Judge Use the judges h	80 traight I e figure nate the TWO of e the the udents. 0-10 5 npetitors g order: 1 1 2 2 3 3 method nas the	90 ine trep ine trep s in the produ the fo 10- 20 7 s in a b 4 6 7 I of ran neares	9 nd. e graph ction in Ilowing artiles 20- 30 20- 30 6 5 4 ik correct	2 and s a 2010. SEC g from th 30 40 312 32 47 510 510 510 510 50 510	83 how th CTION ne follo 2 4 2 2 2 2 4 3 are ra 9 10 0 8 coeffic comm	94 e trer C wing 0- 50 28 unked 7 9 9 9 9 ient to on ta	data 50- 60 22 by th	98 e of n iree 3 3 2 ain w	narks 60- 70 10 judges 10 8 6 vhich p	92 (2 and the 70- 80 8 s in the 5 1 1	К4 К4	CO3
9.	Year Prod. i) Fit a s ii)Plot th iii) Estim wer any T Calculat no.of stu Mark s Freq. Ten con following Judge Judge Use the judges h Minimize	80traight I e figure nate theWO of e the the udents.0-105 order: 10-105 order: 11223333as the e z=-x1+	90 ine trep ine trep s in the produ the fo 10- 20 7 s in a b 4 6 7 I of ran neares	9 nd. e graph ction in Ilowing artiles 20- 30 20- 30 6 5 4 ik correct	2 and s a 2010. SEC g from th 30 40 312 32 47 510 510 510 510 50 510	83 how th CTION ne follo 2 4 2 2 2 2 4 3 are ra 9 10 0 8 coeffic comm	94 e trer C wing 0- 50 28 unked 7 9 9 9 9 ient to on ta	data 50- 60 22 by th	98 e of n iree 3 3 2 ain w	narks 60- 70 10 judges 10 8 6 vhich p	92 (2 and the 70- 80 8 s in the 5 1 1	K4	CO3
9.	Year Prod. i) Fit a s ii)Plot th iii) Estim wer any T Calculat no.of stu Mark s Freq. Ten con following Judge Judge Judge Use the judges h Minimize -x ₁ +3x ₂	80traight Ie figurenate theWO ofthe thewe the the0-1050-1050-1050-1050-1050-1050-1050-1050-1050-1050-105112333as thee z=-x1+≤ 10	90 ine trep ine trep s in the produ the fo 10- 20 7 s in a b 4 6 7 I of ran neares	9 nd. e graph ction in Ilowing artiles 20- 30 20- 30 6 5 4 ik correct	2 and s a 2010. SEC g from th 30 40 312 32 47 510 510 510 510 50 510	83 how th CTION ne follo 2 4 2 2 2 2 4 3 are ra 9 10 0 8 coeffic comm	94 e trer C wing 0- 50 28 unked 7 9 9 9 9 ient to on ta	data 50- 60 22 by th	98 e of n iree 3 3 2 ain w	narks 60- 70 10 judges 10 8 6 vhich p	92 (2 and the 70- 80 8 s in the 5 1 1	К4 К4	CO3
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9.	YearProd.i) Fit a sii) Plot thiii) Estimwer any TCalculatno.of stuMarkSFreq.Ten confollowingJudgeJudgeJudgeJudgeJudge s hMinimize $x_1+3x_2 \le 0$ $x_1-x_2 \le 2$	80traight Ie figurehate theWO ofe the theudents.0-105opetitors0 order:112233methodas thee z=-x1+≤6	90 ine trep ine trep s in the produ the fo 10- 20 7 s in a b 4 6 7 I of ran neares	9 nd. e graph ction in Ilowing artiles 20- 30 20- 30 6 5 4 ik correct	2 and s a 2010. SEC g from th 30 40 312 32 47 510 510 510 510 50 510	83 how th CTION ne follo 2 4 2 2 2 2 4 3 are ra 9 10 0 8 coeffic comm	94 e trer C wing 0- 50 28 unked 7 9 9 9 9 ient to on ta	data 50- 60 22 by th	98 e of n iree 3 3 2 ain w	narks 60- 70 10 judges 10 8 6 vhich p	92 (2 and the 70- 80 8 s in the 5 1 1	К4 К4	CO3
9.	YearProd.i) Fit a sii) Plot thiii) Estimwer any TCalculatno.of stuMarkSFreq.Ten confollowingJudgeJudgeJudgeJudgeJudgeJudgeJudgeJudgeJudgeJudgeJudgeJudge thejudges thMinimize $x_1+x_2 \leq 2$ $x_1,x_2 \geq 0$	80 traight I e figure nate the WO of the the 0-10 5 0-10 5 0-10 5 0-10 5 0-10 5 0-10 5 0-10 5 0-10 5 0-10 5 0-10 5 0-10 5 0-10 5 0-10 5 0-10 5 0-10 5 0-10 5 0-10 2 3 3 3 4 0 0 0 0 0 0 0 0 0 0	90 ine trep s in the produ the fo aree qu 10- 20 7 s in a b 4 6 7 I of rar neares -2x ₂ su	9 nd. e graph ction ir Ilowing artiles 20- 30 20- 30 6 5 4 4 1 approximation	2 n and s 2010. SEC g from th 30 40 40 12 contest 32 32 47 510 510 50 510 50 50 50 50 50 50 50 50 50 50 50 50 50	83 how th CTION ne follo 2 2 2 2 4 2 2 2 2 2 2 4 3 4 9 10 0 8 coeffic comm onstrai	94 e trer C wing 0- 50 28 inked 7 9 9 9 9 ient to on ta nts:	data 50- 60 22 by th 8 2 2 5 obta ste in	98 e of n iree 3 3 2 ain w	narks 60- 70 10 judges 10 8 6 vhich p	92 (2 and the 70- 80 8 s in the 5 1 1	К4 К4	CO3
9. 10. 11.	YearProd.i) Fit a sii) Plot thiii) Estimwer any ICalculatno.of stuMarkSFreq.Ten confollowingJudgeJ	80 traight I e figure nate the WO of e the the 0-10 5 npetitors g order: 1 1 2 2 3 3 method e z=-x1+ ≤ 10 6 2 graphic	$\begin{array}{c c} 90\\ \text{ine tree}\\ \text{produ}\\ \hline \\ \textbf{the fo}\\ \textbf{the fo}\\ \hline \\ \textbf{the fo}\\ \hline \hline \\ \textbf{the fo}\\ \hline \\ \textbf{the fo}\\ \hline \\ \textbf{the fo}\\ \hline \hline \hline \\ \textbf{the fo}\\ \hline \hline \hline \\ \textbf{the fo}\\ \hline \hline \hline \hline \\ \textbf{the fo}\\ \hline \hline \hline \hline \hline \\ \textbf{the fo}\\ \hline \hline$	9 nd. e graph ction in Ilowing iartiles 20- 30 20- 30 6 5 4 ik correct bject to bject to	2 n and s 2010. SEC g from th 30 40 12 contest 3 2 4 7 5 10 elation bach to bo the co solve t	83 how th CTION ne follo 2 2 2 2 4 2 2 2 2 2 2 4 3 4 9 10 0 8 coeffic comm onstrai	94 e trer C wing 0- 50 28 inked 7 9 9 9 9 ient to on ta nts:	data 50- 60 22 by th 8 2 2 5 obta ste in	98 e of n iree 3 3 2 ain w	narks 60- 70 10 judges 10 8 6 vhich p	92 (2 and the 70- 80 8 s in the 5 1 1	K4 K4 K4 K4 K4	CO3
9.	YearProd.i) Fit a sii) Plot thiii) Estimwer any TCalculatno.of stuMarkSFreq.Ten confollowingJudgeX1+X2 < 2	80 traight I e figure nate the WO of e the the 0-10 5 npetitors g order: 1 1 2 2 3 3 method e z=-x1+ ≤ 10 6 2 graphic	$\begin{array}{c c} 90\\ \text{ine tree}\\ \text{produ}\\ \hline \\ \textbf{the fo}\\ \textbf{the fo}\\ \hline \\ \textbf{the fo}\\ \hline \hline \\ \textbf{the fo}\\ \hline \\ \textbf{the fo}\\ \hline \\ \textbf{the fo}\\ \hline \hline \hline \\ \textbf{the fo}\\ \hline \hline \hline \\ \textbf{the fo}\\ \hline \hline \hline \hline \\ \textbf{the fo}\\ \hline \hline \hline \hline \hline \\ \textbf{the fo}\\ \hline \hline$	9 nd. e graph ction in Ilowing iartiles 20- 30 20- 30 6 5 4 ik correct bject to bject to	2 n and s 2010. SEC g from th 30 40 12 contest 3 2 4 7 5 10 elation bach to bo the co solve t	83 how th CTION ne follo 2 2 2 2 4 2 2 2 2 2 2 4 3 4 9 10 0 8 coeffic comm onstrai	94 e trer C wing 0- 50 28 inked 7 9 9 9 9 ient to on ta nts:	data 50- 60 22 by th 8 2 2 5 obta ste in	98 e of n iree 3 3 2 ain w	narks 60- 70 10 judges 10 8 6 vhich p	92 (2 and the 70- 80 8 s in the 5 1 1	К4 К4	CO3

	wer any ONE		-				•	x 20 =	20)		
13.		om the following data, calculate seasonal variations by the Ratio to end method.									
	Year	Quarte	r 1 🛛 Qu	uarter 2	Quarte	er 3 (Quarter 4				
	2010	30	40		36		34				
	2011	34	52		50		14				
	2012	40 54	58 58		54 68		18 52				
	2013	80	92		86		32				
14.	a) The average salary of male employees in a firm was 5200 and that										
	of females	was 4200	The mean	n salary o	f all empl	lovees w	as 5000				
				•		•					
	Hence find	•	•								
	b) The follo	b) The following table shows the distribution of 100 students									
	according to	o their mar	ks in stati	stics exar	n. The m	edian is	given by 30				
	marks. Find	I the missi	ng frequei	ncies.							
	Marks	0-10	10-20	20-30	30-40	40-50	50-60				
	No. of										
	Student	10		25	30		10				
	S										
	J										
				SECTION	NE						
Ansv	wer any ONE	of the fo	lowing				(1	x 20 =	= 20)		
15.	a) The first	four mom	ents of a	distributic	n about	the num	ber 4 of the	K6	CO5		
							bout mean.				
						of the	distribution.				
	Further, find				•	vo voriok	Noo V and V				
							oles X and Y				
	from 12 pairs of observations, following calculations were made : $\sum x = 30, \sum y = 5, \sum x^2 = 670, \sum y^2 = 285 \text{ and } \sum xy = 334.$ On										
			$x^2 = 670$	$v^{2} = v^{2}$	285 an	u / xv					
	$\sum x = 30, \sum$	$y = 5$, Σ									
	$\sum x = 30, \sum$ subsequent	$y = 5, \sum_{t \text{ verification}} x = 5$	ons, it wa	s found t	hat the	pair (x= ⁻	11,y=4) was				
	$\sum x = 30, \sum$ subsequent copied wrot of the corre	$y = 5$, \sum t verification ngly, the c lation coef	ons, it wa orrect bei ficient.	s found t ng (x=10,	hat the y= 4). Fi	pair (x= nd the c	11,y=4) was				
16.	$\sum x = 30, \sum$ subsequent copied wrot of the corre Supply	$y = 5$, \sum t verification ngly, the c	ons, it wa orrect bei	s found t	hat the	pair (x= nd the c	11,y=4) was		CO5		
16.	$\sum x = 30, \sum$ subsequent copied wrot of the corre Supply\ Demand	$y = 5, \sum$ t verification ngly, the c lation coef D1	ons, it wa orrect bei ficient. D2	s found t ng (x=10,	hat the y= 4). Fi	pair (x= nd the c 4	11,y=4) was correct value		CO5		
16.	$\sum x = 30, \sum$ subsequent copied wrot of the corre Supply\ Demand S1	$y = 5, \sum$ t verification ngly, the c lation coef D1 11	ons, it wa orrect bei ficient. D2 13	s found t ng (x=10, D3 17	hat the y= 4). Fi	pair (x= nd the c 4 4	11,y=4) was correct value 250		CO5		
16.	$\sum x = 30, \sum$ subsequent copied wrot of the corre Supply\ Demand S1 S2	$y = 5, \sum$ t verification ngly, the c lation coef D1 11 16	ons, it wa orrect bei ficient. D2 13 18	s found t ng (x=10, D3 17 14	hat the y= 4). Fi D 14 14	pair (x= nd the c 4 1 0	11,y=4) was correct value 250 300		CO5		
16.	$\sum x = 30, \sum$ subsequent copied wrot of the corre Supply\ Demand S1	$y = 5, \sum$ t verification ngly, the c lation coef D1 11	ons, it wa orrect bei ficient. D2 13	s found t ng (x=10, D3 17	hat the y= 4). Fi D 14 1(1(pair (x= nd the c 4 1 0	11,y=4) was correct value 250		CO5		
16.	$\sum x = 30, \sum$ subsequent copied wrot of the corre Supply\ Demand S1 S2	$y = 5, \sum$ t verification ngly, the c lation coef D1 11 16 21 200	ons, it wa orrect bei ficient. D2 13 18 24 225	s found t ng (x=10, D3 17 14 13 275	hat the y= 4). Fi D 14 10 10 25	pair (x= nd the c 4 1 2 50	11,y=4) was correct value 250 300 400		CO5		
16.	$\sum x = 30, \sum$ subsequent copied wrot of the corre Supply\ Demand S1 S2 S3 Apply the fo i) North-west	$y = 5, \Sigma$ t verification ngly, the c lation coef D1 11 16 21 200 blowing me st Corner F	ons, it wa orrect bei ficient. D2 13 13 18 24 225 ethods to	s found t ng (x=10, D3 17 14 13 275	hat the y= 4). Fi D 14 10 10 25	pair (x= nd the c 4 1 2 50	11,y=4) was correct value 250 300 400		CO5		
16.	$\sum x = 30, \sum$ subsequent copied wrot of the corre Supply\ Demand S1 S2 S3 Apply the for	$y = 5, \Sigma$ t verification ngly, the c lation coef D1 11 16 21 200 blowing means st Corner F st Method	ons, it wa orrect bei ficient. D2 13 18 24 225 ethods to Rule	s found t ng (x=10, D3 17 14 13 275 find the le	hat the y= 4). Fi D 14 10 10 25	pair (x= nd the c 4 1 2 50	11,y=4) was correct value 250 300 400		COS		