34. Following are the marks obtained by two students A and B in 10 sets of examination												
Set	Set			<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>
Marks of	Marks obtained by student A			80	76	48	52	72	68	56	60	64
Marks obtained by student B 48 75 54 60 63 69 72							51	57	51			
Compare their standard deviations and interpret.												
35. Obtain the two regression equation from the following data:												
Х		4		5		6			8		11	
Y		12		10		8			7		5	
36. From the following data find the Q_1 , Q_2 and Q_3 .												
Х	5	10	15	20	2.	5	30	2	40	45	50	
F	20	43	75	76	7	2	45		39	18	16	
										(2 × 1	2 = 24	Marks)

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(Pages: 3)

	THIRD SEMESTI	ER B.A. DEGREE EX	
CC	1511 ECO3 B03 - OI	(CUCBCS) J ANTITATIVE MET	
cc	.150 ECO5 D 05 - QC	(Economics - C	
		(2015 Admissio	
Time:	Three Hours		
		Section	n A
	Answe	er all questions. Each o	quest
1.	Any non zero numbe	r or variable raised to	the z
	a) 0	b) 1	c) :
2.	A matrix i	s one which there exis	t line
	or columns.		
	a) Non Singular	b) Singular	c)
3.	The coefficient of co	rrelation is the	of tw
	a) Arithmetic Mean	b) Harmonic Mean	c) (
4.	represents	the difference between	n the
	a) Range		b)
	c) Quartile Deviation	L	d)
5.	If a curve is more pea	aked than the normal c	urve
	a) Platykurtic	b) Mesokurtic	c)]
6.	is used to s	study the degree of ine	qual
	a) Ogives	b)Lorenze Curve	c)
7.	If $log_5 125 = x$, then	ı x=	
	a) 3	b) 5	c) 2
8.	A function expressed	directly in terms of th	ie de
	function.		
	a) Implicit	b) Explicit	c)]
9.	The distance between	n two points (3,1) and	(2,2
	a) 4	b) 2	c) -
10.	The sum of the squar	ed deviations of the ol	oserv
	a) Minimum	b)Maximum	c) 2

(1)

es: 3)	Name:	
	Reg. N	lo
	NATION, NOV	EMBER 2018
CSS-UG)		
- Core Co		OMIC ANALYSIS I
sion onwa	,	
	,	Maximum: 80 Marks
. .		
t ion A Th question	n carries ½ mar	k.
to the zero	b power ; x^0 is e	qual to
c) <i>x</i>		d) none of the above
xist linear	dependence bet	ween at least two rows
	•	
c) Sy	mmetric	d) Null
of two	regression coeff	ficients.
n c) Ge	eometric Mean	d) Median
een the th	ird quartile and	the first quartile.
b) Int	ter Quartile Ran	ge
d) M	ean deviation	
al curve, it	t is called	
c) Le	ptokurtic	d) None of the above
inequality	7	
c) Hi	stogram	d) Frequency Polygon
c) 25		d) 15
f the depe	ndent variable is	s said to be an
c) Ev	en	d) Odd
nd (2,2) i	S	
c) -2		d)1
observati	ions from the me	ean is
c) Ze	ro	d) One

Turn Over

a) $\frac{1}{ A }$	b)	A (Adj A)	c) $\frac{1}{141}$ (Adj A)	d) (<i>Adj A</i>)	Section C
12. The variance is			A			Answer any six questions. Each ques
		2			1\ NT	25. Draw a less than ogive from the given data be
a) <i>σ</i>	b) a	5-	c) Zero	0	d) None	
					$(12 \times \frac{1}{2} = 6 \text{ Marks})$	Profits 10-20 20-30 30-40 40-50
	namon onvite		tion B	on comica 2 n	noutro	No. Of 4 7 13 20
	-	en questions.	-		narks.	Companies
13. Solve the equation)		26. Find the inverse of the matrix $A = \begin{bmatrix} 4 & 2 & 6 \\ 2 & 3 & 1 \\ 5 & 7 & 1 \end{bmatrix}$
14. Calculate coeffici	-		-			20. Find the inverse of the matrix $A = \begin{bmatrix} 2 & 5 & 1 \\ 5 & 7 & 1 \end{bmatrix}$
Marks	10-20	20-30	30-40	40-50	50-60	27. Write the properties of determinants.
Frequency	8	10	12	8	4	28. Solve the following equation $5x^2 + 14x - 3$
						29. Explain different types of correlation.
15. Explain the differ	rent steps inv	olved in draw	ing a Loren	z Curve.		30. Find the Spearman's rank correlation from the
16. Write a note on q	uartiles.					an examination:
		11 · 4	6 7 9]		X 88 57 68 44 70
17. Find the determin	iant of the to	110wing: A =	$\begin{bmatrix} 10 & 2 & 3 \\ 5 & 4 & 1 \end{bmatrix}$			Y 72 80 42 66 5
18. Write a note on :						
a. Symmetric ma	atrix.					31. Write a note on :a. Symmetric distribution.
b. Idempotent m						b. Positively Skewed distribution.
19. What is coefficie		on?				c. Negatively Skewed distribution.
20. Obtain the equation and slope of the line joining the two points (1,2) and (3,4)						32. Find the equilibrium price and quantity from
-	-			o pointo (1)-	-) and (0) -)	$D = -18 + 2p + p^2$ and $S = -4p - 2$
21. Find the rank of	the matrix A	$= \begin{vmatrix} 3 & 7 \\ 3 & 1 \end{vmatrix}$				D = 10 + 2p + p and $D = 1p - 2$
22. Solve $\left(\frac{x^4y^3}{x^2y^5}\right) \left(\frac{x^2}{xy}\right)$	$\frac{y}{2}$)					Section I
		data				Answer any <i>two</i> questions. Each c
23. Find median of th	_		-		0	33. Use matrix inverse method to solve for the un
Sl.No. 1	2 3			5 7	8	given below:
Marks 45	25 19	9 33	20	10 8	15	x + 3y + 3z = 3
						2x + 3y + 2z

24. Interpret correlation coefficient.

(2)

 $(10 \times 2 = 20 \text{ Marks})$

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question carries 5 marks. ta below:

60-70 70-80 80-90 90-100 50-60 0-50 25 15 2 8 5 6 1 1

-3 = 0

m the following data of marks of 10 students in

76	30	95	54	62	70
51	25	60	55	37	78

rom the following functions

 $(6 \times 5 = 30 \text{ Marks})$

ion D

ach question carries 12 marks.

ne unknowns in the system of linear equations

-3z = -12x + 3y + 2z = 14x + 2y + z = -1

Turn Over