



Continuous Assessment Test - I

Programme Name & Branch: B. Tech.

Course Name & Code: Statistics for Engineers (MAT2001)

Exam Duration: 90 minutes

Slot: G1+TG1

Maximum Marks: 50

Answer All the Questions ($5 \times 10 = 50$)

ο.	Quest	ion	A CONTRACTOR OF THE PARTY OF TH						-	
	Calcu hence	late the me	an and s	tandar coeffic	d deviation	on of the	e foll	owing	freque	ncy distribu
		Class	500	-700	700-900	201211111		1100-1300		1300-1500
		Frequency		5	11	26		1	0	8
	Find the quartile deviation for the following frequency distribution:									
		Age	20-40	40-60	60-80	80-100	100	-120	120-14	0 140-16
		No. of Employees	4	6	10	16	1	2	7	3
	y = 1	oint proba $.2,3. (i)$ $P[X+Y>$	Find all	ss fun margii	ction of	(X,Y) is	5 p(.	x, y) =) Find	= k(2x -	+3y); x = -x, / Y = 2
	Find	.2,3. (i) $P(X + Y > $	Find all 3].	margin	nal distrib	utions	(ii) Find	P(X -	$=x_i/Y=2$
	y = 1 Find The jo	P(X + Y > 1) int probab	Find all 3]. ility densi	margin	nal distrib	utions	(ii) Find	P(X -	$=x_i/Y=2$
	y = 1 Find The jo (X,Y) covari	.2,3. (i) $P(X + Y > $	Find all 3]. ility densi by and Y. ars that a	margin ity fun $f(x, y)$	tion of to $\frac{x(1)}{x(2)} = \frac{x(1)}{x(2)}$ $\frac{x(2)}{x(2)} = \frac{x(2)}{x(2)}$	wo dime $+3y^2$) 4 0;	msion; 0) Find al con	tinuous $2; 0 < y$ erwise	$= x_i / Y = 2$, random var < 1 Fin:
	y = 1 Find The jo (X,Y) covari	.2,3. (i) $P(X+Y)$ oint probab is given ance of X me X in ye	Find all 3]. ility densi by and Y. ars that a loyees are	margin ity fun $f(x, y)$	tion of to $\frac{x(1)}{x(2)} = \frac{x(1)}{x(2)}$ $\frac{x(2)}{x(2)} = \frac{x(2)}{x(2)}$	wo dime $+3y^2$) 4 0; Int on a cle below	msion; 0) Find al con	tinuous 2; $0 < y$ erwise ad the e	$= x_i / Y = 2$, random var < 1 Fin:
	y = 1 Find The jo (X,Y) covari	.2,3. (i) $P(X+Y)$ bint probab is given ance of X me X in ye for 5 empl	Find all 3]. ility densi by and Y. ars that a loyees are ars (X)	ity function $f(x, y)$ n emploised 5	tion of two points of the tab $\frac{x(1)}{3}$	wo dime $\frac{+3y^2}{4}$ 0;	msion; 0-) Find al con < x < . other any ar	P(X - 1) tinuous 2; $0 < y$ erwise and the en	random var <pre> / < 1 Fin mployee's ! </pre>

SPARCH VIT QUESTION PAPERS ON TELEGRAM TO JOIN