1 - 78 N



Vellore-632014, Tamil Nadu, India Department of Mathematics School of Advanced Sciences Fall Semester 2022-2023

Continuous Assessment Test - I

Programme Name & Branch: M.Sc., MCA

Course Code: MAT5007

Course Name: Applied Statistical Methods

Slot: D2

Exam Duration: 90 Min.

Maximum Marks: 50

General instruction: Answer all questions

Q.No.	The second second										Max Marks	
4.	Calculate th	e med	ian ar	nd mod	e for the	followi	ing free	quency o	listribut	tion:	10	
	Height (in	Calculate the median Height (inches)		0-62	63-65	66-68	8 69)-71	72-74	169		
	Frequency		5		18	42	27		8	62.78		
2.		The number of telephone calls received at an exchange in 245 successive one-minute intervals are shown in the following frequency distribution:										
	Number calls		0	1	2	3	4	5	6	7		
	Frequency		14	21	25	43	51	40	39	12		
	Calculate the mean deviation about the median and find the standard deviation.										N	
		he me	an d	eviatio.	n about				d the	standard		
₹.		and th	he up	oper qu	artiles	of a di	stributi	ion are	14.6 a	and 25.2	10	
	deviation. The lower respectively distribution.	and the	he up coeffi	oper quicient o	artiles of skewn	of a di	stributi 0.5. F	ion are	14.6 a mediar	and 25.2 n of the	10	
	deviation. The lower respectively distribution. Heights (X,	and the	he up coeffi	oper quicient o	artiles of skewn	of a di	stributi 0.5. F	ion are	14.6 a mediar	and 25.2 n of the		V. (N.X) VA
	deviation. The lower respectively distribution.	and the	he up coeffi	oper quicient o	artiles of skewn	of a diness is	stributi 0.5. F	ion are ind the	14.6 a mediar	and 25.2 n of the		Y= (AY(X,4)
	deviation. The lower respectively distribution. Heights (X,	and the and continued in inch	he up coeffi つう hes) a	oper quicient of	ghts (Y,	of a dinness is in kg) of 67	stributi 0.5. F	ion are ind the sons are	14.6 a mediar	and 25.2 n of the		Y= (AV(X,4)
4.	deviation. The lower respectively distribution. Heights (X, X Y	in inch	he up coeffi hes) a relationsists	nd wei	ghts (Y,	of a diness is in kg) of 67 73 etween 2 conomi. Hence	stributi 0.5. For 5 per 5 6 X and Sics (x)	ion are ind the sons are in ion are in ion are in ion are in ion are ion	14.6 a mediar e given 69 68 68 rks in S	and 25.2 n of the below:		Y= (AV(X,4) Byy = (AV) S(x)
4.	deviation. The lower respectively distribution. Heights (X, X Y) Determine the Following ta (y). Find the	in inch 64 57 he corr able coer regres	he up coeffi hes) a relationsists	nd wei	ghts (Y,	of a diness is in kg) of 67 73 etween 2 conomi. Hence	stributi 0.5. For of 5 per 5 6 X and vices (x) find th	ion are ind the sons are in indicate in in	14.6 a mediar e given 69 68 68 rks in S	and 25.2 n of the below:	10	Y= (AV(X.4) - (AV) -