

SLOT: B1 CLOSED BOOK

## SCHOOL OF MECHANICAL ENGINEERING

## CONTINUOUS ASSESSMENT TEST - II - WINTERSEMESTER 2019-2020

Programme Name & Branch: B. Tech. Mechanical Engineering

Course Code: MEE1034

Course Name: Statistical Quality Control

Faculty Name(s): Dr. Raviteja Buddala

Class Number(s):VL2019205002430 Exam Duration: 90 mins Maximum Marks: 50

General instruction(s): Answer all the questions

No.					Ų	iestion						
1	The following data represents the results of inspection of friction stir welded parts.										20	
	Construct a fraction defective chart for the variable sample size and give your inference.											
	Sample number	1	2	3	4	5	6	7	8	9	10	
	Number Inspected	200 2	217	230	300	302	311	322	305	308	303	
	Number rejected	2	3	4	8	3	7	3	6	5	3	
	Sample	11	12	13	14	15	16	17	18	19	20	
	Number Inspected		30	298	290	318	250	340	333	310	320	
-//	Number rejected	4   3	3	6	4	8	7	4	7	4	8	
str	the following oservations ead ength of 199 e sided specif	ch. The ci N/m². Th	uston e rec	ner pur commer	chasing ided m	these inimum	contain value	ers nee	ds a m	inimum pability	bursting	5
str	rength of 199 e sided specit	ch. The converse of the conver	e rec 1.45	ommer 5. Anal	chasing ided m	these inimum proce	contain value ss capa	ers nee	ds a m	inimum pability	bursting	5
str	rength of 199 e sided specit	ch. The converse of the conver	uston e rec	ommer 5. Anal	chasing nded m yze the	these inimum proce	contain value ss capa	of production	ds a m	inimum pability suitabl	ratio for e contro	
str	rength of 199 e sided specit	ch. The converse of the conver	e rec 1.45	ommer 5. Anal	chasing ided m yze the	these inimum proce  Data  263	containe value ss capa	of production of	ds a m cess ca using a	inimum pability suitabl	ratio for e contro	
str	rength of 199 e sided specit	ch. The converse of the conver	e rec 1.45	265 268	chasing ided m yze the 260	these inimum proce  Data  263	containe value ss capa	ers nee of prod bility to 220	ds a m cess ca using a	inimum pability suitabl	ratio for e contro	
str	rength of 199 e sided specit	ch. The converse of the conver	uston e rec 1.45 nple	265 268 197	chasing ded myze the 260	these inimum proce Data 263 234	contain value ss capa (299) 243	220 215 231	ds a m cess ca using a	inimum pability suitabl	bursting	
str	rength of 199 e sided specit	N/m². The construction is	uston e rec 1.45 nple	265 268 267	chasing ded myze the 260 286 281	these inimum proces  Data 263 234 274 265	containe value ss capa 299 243 214	220 215 231 318	ds a m cess ca using a	inimum pability suitabl	ratio for e contro	
str	rength of 199 e sided specit	N/m². The construction is	nple	265 268 267 267	205 260 286 281 317	Data 263 234 274 265	307) 299) 243 214) 258	220 215 231 231 276	ds a m cess ca using a	inimum pability suitabl	ratio for e contro	
str	rength of 199 e sided specit	San	nple	265 268 267	205 260 286 281 317 208	these inimum proce Data 263 234 265 242 (187)	299 243 214 258 264	220 215 231 231 276 271	ds a m cess ca using a	inimum pability suitabl	ratio for e contro	
str	rength of 199 e sided specit	San	nple	265 268 197 267 346 300	205 260 286 281 317 208 242	these inimum proces  Data 263 234 274 265 242 (187) 260	299 243 214 258 264 320	220 215 231 231 276 271 228	ds a m cess ca using a	inimum pability suitabl	ratio for e contro	
str	rength of 199 e sided specit	San  San  San  6  7	nple	265 268 267 267 346 300 280	205 260 286 281 317 208	these inimum proces  Data 263 234 274 265 242 (187) 260 258	299 243 214 258 264 320 267	220 215 231 231 276 271 228 293	ds a m cess ca using a	inimum pability suitabl	ratio for e contro	
str	rength of 199 e sided specit	San  San  San  San  San  San  San  San	nple	265 268 267 267 346 300 280 250	205 260 286 281 317 208 242 299	these inimum proces  Data 263 234 274 265 242 (187) 260 258 281	299 243 214 214 258 264 320 267 294)	220 215 231 231 276 271 228	ds a m cess ca using a	inimum pability suitabl	ratio for e contro	

standard deviation 1 centimeter. The following table contains the data of 20 samples with single observation each.

- A. Setup the tabular Cusum for the following data. (10M)
   B. Also plot the Cusum status chart.(5M)

Sample	1	2	3	4	5	6	7	8	9	10
length	9.03	11.47	10.51	9.40	10.08	9.37	10.62	10.31	8.52	10.84
Sample	11	12	13	14	15	16	17	18	19	20
length	10.90	9.33	12.29	11.50	10.60	11.08	10.38	11.62	11.31	10.52

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