Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VII • EXAMINATION - SUMMER • 2014

Subject Code: 171906				Date: 31-05-2014	
Tir	•	2:30 pm - 05:00 pm	Reliability Engineering	Total Marks: 70	
	1. 2. 3.	Attempt all questions. Make suitable assumption Figures to the right indicates.	•		
Q.1	(a) (b)	Discuss Business Process Re-engineering in brief Explain ISO 14000 with its benefits and barriers		07 07	
Q.2	(a) (b)	Write a short note on views of different quality Gurus Explain 7 New Quality Improvement tools OR			
	(b)	Discuss TQM impleme	_	07	
Q.3	(a) (b)	Explain different steps Explain KANBAN syst	em in brief	07 07	
0.1	(.)	W	OR O	0.5	
Q.3	(a) (b)	Write a short note on T Write a short note on J		07 07	
Q.4	(a) (b)	Discuss advantages and Write a short note on	d disadvantages of Total Productive Mai a) Bench marking b)Agile manufacturing OR	intenance 07	
Q.4	(a)	Explain six sigma tenn		07	
	(b)				
		alle	b) Quality Management		
Q.5	(a)	(a) Define Quality 2) Inspection 3)Failure rate 4)Quality Control 5) Failudensity 6)MTTF 7)MTTR			
	(b) One thousand steel pins with the specification of 10+0.015,1				
	diameter were obtained and the data was recorded fo		-		
		Diameter in mm	No Of pins		
		10.60-10.65	05		
		10.65-10.70	10		
		10.70-10.75 10.75-10.80	30		
		10.80-10.85	17		
		10.85-10.90	03		
			netic mean and standard deviation		
		2) Interpret the re	sults on the basis of Normal distribution	and suggest the	
		change if any			
o -	, .	**************************************	OR		
Q.5	(a)	Write a short note on	a) Histogram	07	
	(b)	Write a short note on	b) Normal Distribution Curvea) Failure Data Analysis	07	
	(D)	write a short hote off	b) Mortality Curve	U/	
