GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-VII • EXAMINATION – WINTER • 2014

Subject Code: 171906 Subject Name: Quality and Reliability Engineering Time: 10:30 am - 01:00 pm Instructions:			Date: 29-11-2014
			Total Marks: 70
	1. 2. 3.	Attempt all questions.Make suitable assumptions wherever necessary.	
Q.1	(a) (b)	Discuss views of different Quality Gurus. Explain 7 New Quality Improvement Tools	07 07
Q.2	(a) (b)	Explain Failure Mode and Effect analysis (FMEA) Explain Total Quality Control	07 07
	(b)	OR Discuss TQM Implementation and Limitations	07
Q.3	(a)	Explain Steps in experimental design	07
	(b)	Explain KANBAN system OR	07
Q.3	(a)	Briefly explain Taguchi approach	07
	(b)	Explain Methods of Total Productive Maintenance	07
Q.4	(a)	Short note (1) Cost of Quality (COQ) system (2) Bench Marking	07
	(b)	Discuss Advantages and Limitation of Six Sigma OR	07
Q.4	(a)	Short note (1) Discore and continuous distribution (2) Beach Marking	07
	(b)	Explain Concurrent Engineering list out its merits and de	emerits 07
Q.5	(a)	Explain Reliability in terms of Hazard rate and failure density probability and multiplication rules	y, Conditional 07
	(b)	Short note	07
		(1) Mean time to failure(2) Mean time between failure	
		OR	
Q.5	(a)	Short note (1) Failure data analysis (2) Mean time to repair	07
	(b)	Explain QS 9000 list out its merits and demerits	07

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