Seat No.:	Enrolment No.
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GUJARAT TECHNOLOGICAL UNIVERSITY

ME Semester –III Examination Dec. - 2011

Subj	ect o	code: 732803 Date: 08/12	/2011
•	e: 10	Name: Quality Engineering and Management 0.30 am – 01.00 pm Total Mark	s: 70
111361	1. 2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a)	(i) Binomial Distribution(ii) Poisson Distribution	07
	(b)	(iii) Normal DistributionExplain about following terms.(i) SPC (ii) Skewness	07
Q.2	(a) (b)	What do you mean by TQM? Explain about need of it. Define Quality. What are the different views of Quality?	07 07
	(b)	OR Differentiate between Inspection and Quality Control	07
Q.3	(a) (b)	Define DOE. When to use DOE? Explain Define Benchmarking. Why Benchmarking is necessary? OR	07 07
Q.3	(a)	What are the benefits that could be realized by implementing an ISO 14000 Quality Systems?	07
	(b)	What are the Principles of BPR ?	07
Q.4	(a) (b)	What is Taguchi approach to Robust Design? What are the benefits using Taguchi Quality Loss Function. Explain it with example. OR	07 07
Q.4	(a)	What do you understand from JIT ? What benefits can occur to the	07
	(b)	company from the application of JIT Technique? Define Concurrent Engineering? What are the Principle of Concurrent Engineering?	07
Q.5	(a)	Define following terms.	07
	(b)	(i) Advisability (ii) MTBF (iii) MTTF What do you meant by TPM? What are the objectives of TPM? OR	07
Q.5	(a)	What is Kaizen? What advantages can an optimization derive from implementation of Kaizen?	07
	(b)	Differentiate between process FMEA and Design FMEA.	07
