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GUJARAT TECHNOLOGICAL UNIVERSITY BE – VIII SEMESTER EXAMINATION- WINTER 2018

Subject Code: 2181920 Subject Name: Quality Engineering Time: 02:30 PM TO 05:00 PM Instructions:			Date: 19-11-2018 Total Marks: 70	
Q.1	(a)	Write three definitions of Quality as given by the quality g	urus. 03	
	(b)	Explain Quality Dimensions of manufacturing sectors.	04	
	(c)	Explain fundamental factors affecting quality (9 M's).	07	
Q.2	(a)	What is Kaizen? Explain with example.	03	
	(b)	Explain Poka-Yoke with two examples.	04	
	(c)	Explain 7 QC tools.	07	
		OR		
	(c)	Explain 7 New Quality Management Tools.	07	
Q.3	(a)	What is concurrent engineering?	03	
	(b)	Explain the barriers in implementing TQM.	04	
	(c)	Explain Quality Management Standards – ISO: 9000.	07	
		OR		
Q.3	(a)	Write Taguchi's contribution in quality engineering.	03	
	(b)	Explain the implementation requirement of TQM.	04	
	(c)	Write a short note on ISO: 14000.	07	
Q.4	(a)	Write application of FMEA	03	
	(b)	Write two methodologies of Six Sigma.	04	
	(c)	Write a short note on QFD.	07	
0.4	(\cdot)	OR	0.2	
Q.4	(a)	Write the limitation of six sigma.	03	
0.5	(b)	Write the steps in experimental design in DOE.	04	
	(\mathbf{c})	Write a short note on FMEA.	07	
Q.5	(a) (b)	Define (1) JIT, (2) TPM and (3) BPR	03	
	(b)	Write a note on Agile manufacturing.	04	
	(c)	Write a short note on World Class Manufacturing. OR	07	
05	(a)	Define Six sigma with one example.	03	
Q.5	(a) (b)	Explain characteristics of Quality in Service Sectors.	03	
	(b) (c)	Write a short note on Quality Dimensions in Service Sectors.		
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