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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. <b>03</b>	
	<b>(b)</b>	Explain Quality Dimensions of manufacturing sectors.	04	
	(c)	Explain fundamental factors affecting quality (9 M's).	07	
Q.2	<b>(a)</b>	What is Kaizen? Explain with example.	03	
	<b>(b)</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	<b>(a)</b>	What is concurrent engineering?	03	
	<b>(b</b> )	Explain the barriers in implementing TQM.	04	
	(c)	Explain Quality Management Standards – ISO: 9000.	07	
		OR		
Q.3	<b>(a)</b>	Write Taguchi's contribution in quality engineering.	03	
	<b>(b)</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>(b)</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>(b)</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	
	( <b>c</b> )	Write a short note on World Class Manufacturing. <b>OR</b>	07	
05	<b>(a)</b>	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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