## **GUJARAT TECHNOLOGICAL UNIVERSITY**

GUJARAT TECHNOLOGICAL UNIVERSITY			
<b>BE - SEMESTER-VII (OLD) - EXAMINATION – SUMMER 2017</b>			
	Subject Code: 172504 Date: 06/05/20		
Subject Name: Quality Management & Reliability Engineering			
Ti	Time: 02:30 PM to 05:00 PMTotal Marks:		
Instructions:			
<ol> <li>Attempt all questions.</li> <li>Make suitable assumptions wherever necessary.</li> <li>Figures to the right indicate full marks.</li> </ol>			
Q.1	(a) (b)	"Reliability engineering is an important aspect of quality management." explain. Using schematic diagram, explain the five phases of Strategic Quality Management.	07 07
Q.2	(a) (b)	Describe W. Edwards Deming's contribution to TQM. Differentiate between quality audit and quality assurance. <b>OR</b>	07 07
	<b>(b</b> )	What is COPC – 2000? Briefly explain its various clauses.	07
Q.3	(a) (b)	Taguchi method in experimental design- Explain Differentiate between product and service. How does service quality management differ than the product quality management? <b>OR</b>	07 07
Q.3	(a) (b)	-	07 07
Q.4	(a) (b)	Describe the role of on seven magnificent quality tools. Define-patent, copyright, industrial design, trademark. <b>OR</b>	07 07
Q.4	(a) (b)	Describe the quality related priorities of Indian Industries considering the present scenario. What is intellectual property right (IPR)? What are the advantages of filing the right?	07 07
Q.5	(a) (b)	Explain the use of Ishikawa's fishbone diagrams using suitable examples. Explain bath tub curve with respect to maintenance function. <b>OR</b>	07 07
Q.5	(a) (b)	Write a short note on Total Productive Maintenance. Describe FMECA.	07 07

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