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GUJARAT TECHNOLOGICAL UNIVERSITY

BE- SEMESTER-VII (NEW) EXAMINATION – WINTER 2020

Subject Code:2172507	Date:21/01/2021
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Subject Name: Quality Engineering & Management

Time:10:30 AM TO 12:30 PM	Total Marks: 56
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Instructions:

- 1. Attempt any FOUR questions out of EIGHT questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

			MARKS
Q.1	(a)	Explain the process of Benchmarking.	03
	(b)	Write a short note on quality circle.	04
	(c)	Explain various dimensions of Quality in brief.	07
Q.2	(a)	Explain the term quality standards. Give suitable Example.	03
	(b)	Explain different types of quality audits.	04
	(c)	Define ISO along with its benefits of the certification. Briefly describe the quality management standard ISO 9000.	07
Q.3	(a)	Differentiate prevention costs and appraisal costs.	03
	(b)	Describe Ishikawa's contribution to TQM and fishbone diagram.	04
	(c)	Enlist Deming's 14 points of his contribution to TQM.	07
Q.4	(a)	Explain cost of quality of services.	03
	(b)	Discuss internal and external cost of quality with a suitable example.	04
	(c)	Briefly explain the eight pillars of TPM.	07
Q.5	(a)	Differentiate Producer's and Consumer's risks	03
	(b)	Write a short note on Six-Sigma.	04
	(c)	What are the advantages of using quality function deployment? What are some key ingredients that are necessary for its success?	07
Q.6	(a)	Differentiate between variables & attributes.	03
Q. 0	(b)	Write a short note on Design of Experiment.	04
	(c)	Describe OC Curve in brief.	07
0.7	(-)	White shout bets on Trade moules	02
Q.7	(a)	Write short-note on Trade-marks.	03
	(b)	Differentiate between patent & copyright.	04
	(c)	Explain double sampling plan in detail.	07
Q.8	(a)	Discuss Taguchi's loss function in detail.	03
	(b)	List different intellectual properties.	04
	(c)	Discuss QFD and its application.	07
