



## Firstranker's choice GUJARAT TEXTENSER CON Enrolment No.\_\_\_\_\_ Enrolment No.\_\_\_\_\_ Enrolment No.\_\_\_\_\_ **BE - SEMESTER- VII (New) EXAMINATION - WINTER 2019**

	•	t Code: 2172507 Date: 26/11	1/2019
		t Name: Quality Engineering & Management	<b>7</b> 0
	Instructi	10:30 AM TO 01:00 PM Total Mark	ks: /U
	1 2	<ul><li>Attempt all questions.</li><li>Make suitable assumptions wherever necessary.</li><li>Figures to the right indicate full marks.</li></ul>	
			MARKS
Q.1	(a)	Discuss strategic quality management as applied to manufacturing industries.	03
	<b>(b)</b>	Describe the process that organizations adopt for effectively implementing and	04
	(c)	improve QMSs for core business processes.  Describe Quality Management as essential building block of business practices and strategies.	07
Q.2	(a)	Describe your understanding of quality standards.	03
	<b>(b)</b>	Discuss how BIS has been successfully nurturing and promoting standards	04
	(c)	through various activities.  Discuss ISO. Describe benefits of the certification. Briefly describe the quality management standard ISO 9000.  OR	07
	(c)	Discuss the environment management standards: The ISO 14000.	07
Q.3		Explain characteristics of effective quality circles.	03
Q.S	(b)	Describe actions necessary in the organization for the successful Quality	04
	(c)	Circle programme.  Discuss benefits achievable out of successful implementation of Quality circles in a manufacturing organization.	07
		OR	
Q.3	(a)	Analyze Crosby's ideology of conformance to quality standards.	03
	<b>(b)</b>	Analyse Juran's approach to TQM into three main areas of management decisions.	04
	(c)	Explain quality auditing. Discuss conformance auditing with example	07
Q.4		Explain cost of quality of services.	03
	(b) (c)	Discuss internal and external cost of quality with a suitable example.  Discuss Deming's philosophy of TQM, and the PDCA cycle.	04 07
	(C)		07
Q.4	(a)	OR Briefly describe six- sigma quality concept.	03
Ų,1	(b)	Describe Ishikawa's contribution to TQM and fishbone diagram.	04
	(c)	Discuss Taguchi's method of experimental design.	07
Q.5	(a)	Explain vendor rating.	03
	(b) (c)	Discuss control charts for variables.  Explain acceptance sampling. Describe single and multiple sampling plans.	04 07
	(0)		U/
Q.5	(a)	OR Discuss salient points on IPR and patenting.	03
<b>V.</b> 3	(a) (b)	Discuss QFD and its application.	03
	(c)	Describe construction and use of OC curve.	07

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