

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VIII(NEW) EXAMINATION – SUMMER 2019****Subject Code:2182109****Date:09/05/2019****Subject Name:Quality Engineering & Industrial Safety****Time:10:30 AM TO 01:00 PM****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

		MARKS
Q.1	(a) Explain fundamental factors affecting quality (9 M's).	03
	(b) Define variable and attribute quality characteristics.	04
	(c) Explain Characteristics and Quality Dimensions of Service Sectors.	07
Q.2	(a) Draw conceptual frame work for quality management.	03
	(b) What is Kaizen? Explain with example	04
	(c) Explain 7 New Quality Management Tools.	07
	OR	
	(c) What do you mean by quality awards? Explain national and International quality awards.	07
Q.3	(a) Explain Acceptance sampling.	03
	(b) Analyze the contribution of any one quality guru in your language.	04
	(c) State the importance and application of ISO 9000, ISO 14000 and QS 9000.	07
	OR	
Q.3	(a) Difference between reliability and quality.	03
	(b) Explain how TQM can be ensured.	04
	(c) Define QFD and Discuss house of quality-product planning matrix.	07
Q.4	(a) Explain the implementation requirement of TQM.	03
	(b) Write a short note on World Class Manufacturing.	04
	(c) Define MTBF (Mean Time Between Failure), MDT (Mean Down Time), MTTR (Mean Time To Repair).	07
	OR	
Q.4	(a) Explain Types of sampling?	03
	(b) State the importance and application of Control charts .	04
	(c) What is TQM? Explain the principles of Total Quality Management (TQM).	07
Q.5	(a) Explain Safe practices in industry.	03
	(b) Write down the fundamentals of accident prevention.	04
	(c) Explain Provisions for safe working and how to Create a safe environment?	07
	OR	
Q.5	(a) Explain Accident Causes Factors.	03
	(b) What is the Factors Impending Safety?	04
	(c) Define following terms: (1) fire point (2) accident (3) safety guard (4) PPE (5) risk (6) fire pyramid (7) Ergonomics.	07
