

Paper Id: 199702

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**B. TECH.**  
**(SEM VII) THEORY EXAMINATION 2019-20**  
**QUALITY MANAGEMENT**

Time: 3 Hours

Total Marks: 100

**Note:** Attempt all Sections. If require any missing data; then choose suitably.

**SECTION A**

**1. Attempt all questions in brief.**

**2 x 10 = 20**

- a) Explain the term quality management.
- b) What is preventive cost?
- c) What is voice of customers?
- d) What is quality circles?
- e) Define ISO.
- f) What are the benefits of TQM?
- g) What are the important requirements of QS9000?
- h) Define JIT.
- i) Define MTBF.
- j) What is failure cost?

**SECTION B**

**2. Attempt any three of the following:**

**10 x 3 = 30**

- a) Total quality management is a min set required for achieving all the principles of total quality. Do you agree? Explain.
- b) Describe the various quality costs. Briefly describe each of them.
- c) What corrective methods can be adapted to improve quality due to human factors?
- d) Explain the evaluation of reliability.
- e) What is Taguchi's Quality loss function?

**SECTION C**

**3. Attempt any one part of the following:**

**10 x 1 = 10**

- a) Briefly describe about evolution of quality.
- b) What is prototype inspection? How is quality built into the product during design stage?

**4. Attempt any one part of the following:**

**10 x 1 = 10**

- a) Explain the economics of quality value and its contribution.
- b) What is customer feedback? How does it affect quality of a product during sales and service?

**5. Attempt any one part of the following:**

**10 x 1 = 10**

- a) What do you understand by variables and attributes? Explain R-charts.
- b) Briefly explain how the process improvement can be done using control charts.

**6. Attempt any one part of the following:**

**10 x 1 = 10**

- a) Discuss the types of quality audits.
- b) Establish the relationship between reliability, failure rate and MTBF.

**7. Attempt any one part of the following:**

**10 x 1 = 10**

- a) An ISO certified company is a TQM company. Explain this statement.
- b) Explain the JIT implementation and production system process.