June 13, 2024 02:30 pm - 05:30 pm 1T00535 - T.E.(Chemical Engineering)(SEM-V)
(Choice Base Credit Grading System) (R- 19) (C Scheme) / 31727 - Department Optional Course-I:
Management Stream: Total Quality Management QP CODE: 10039434

Duration: 3 Hours **Marks: 80**

N.B. 1 Question number ONE is compulsory
2 Attempt any THREE questions out of remaining FIVE
3 Figure to right indicate full marks

01. Answer the following (any four) **20**

(a) What are the benefits of TQM?

(b) What are the basic ways for a continuous process improvement?

(c) Discuss about supply chain management and its relevance in TQM, highlight the types key elements and major task

(d) Write a short notes on cause and effect diagram

(e) State the primary objectives of the six sigma

02. (a) How do you define TQM. Illustrate with examples of the core concept of TQM **10**

(b) Explain the strategic planning for quality improvement with examples **10**

03. (a) Discuss the reasons for benchmarking and state the advantages and limitations **10**

(b) Describe the product life cycle **10**

04. (a) What are customers, users and consumers? Describe in detail various types of customers. **10**

(b) Explain the approach for vendor evaluation and vendor selection in TQM **10**

05. (a) What is an OC curve? Explain its significance **10**

(b) What are the requirement of Failure Mode and effect analysis (FMEA)? Cite the purpose, reliability and the process of FMEA **10**

06. (a) Explain X bar and R charts and their use in quality monitoring. **10**

(b) What are the benefits of ISO 9000 certification? How does it help in quality improvement? Describe the requirement of ISO 9000 certification **10**

****