B.Tech. MECHANICAL ENGINEERING (BTMEVI)

Term-End Examination

June, 2014

BIMEE-019 : TOTAL QUALITY MANAGEMENT (TQM)

Time : 3 hours   *Maximum Marks : 70*

*Note :   Attempt **any five** questions. All questions carry **equal** marks.*

1. (a) Define modern concept of TQM and its   7
         importance in industries.
    (b) Explain procurement of products and its   7
         procedure.

2. (a) What is the significance of cost of quality ?   7
         How to measure the cost of quality ?
    (b) Explain how human behavior factors   7
         influence quality management.

3. (a) Discuss different types of control charts and   7
         list where they are used.
    (b) Explain the construction and analysis of   7
         C - chart with a suitable example.

4. (a) Define term reliability and list the different   7
         factors affect the reliability.
    (b) Explain the term reliability. Given failure   7
         rate = 0.0002 per hour, determine the
         reliability of the product at 1200 hours and
         12000 hours.

5. (a) Discuss the significance of ISO 9000. 7

   (b) Discuss the JIT Production system with 7
   importance in manufacturing industries.

6. (a) Write short notes on Quality Circles. 7

   (b) Discuss Quality Function Deployment 7
   (QFD).

7. (a) Write short notes on Quality Audit. 7

   (b) Discuss Operating Characteristic Curve. 7

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