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BIMEE-019

B.Tech. – VIEP – MECHANICAL ENGINEERING (BTMEVI)

00196 Term-End Examination
June, 2015

BIMEE-019: TOTAL QUALITY MANAGEMENT (TQM)

Time: 3 hours Maximum Marks: 70

Note: Attempt any **five** questions. All questions carry equal marks. Use of non-programmable scientific calculator is permitted.

- 1. (a) Explain the concept of quality. How has this concept changed during recent years?

 (b) What are the major obstacles, which a
 - (b) What are the major obstacles, which a TQM manager can face while applying TQM to his/her organization? Explain with the help of a suitable example.
- 2. (a) What are the costs of quality? Explain each component of cost of quality.
 - (b) Why is empowering of people considered important in TQM? What are the conditions required for empowering people? Explain.
- 3. (a) What is the purpose of control charts? Explain how this purpose is achieved.
 - (b) Explain the relationship between Total Quality Management (TQM) and Quality Control.

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What do you understand by reliability? 4. (a) Why is it important to analyze reliability of a manufacturing system? What is a bath-tub curve? Explain the (b) 7 reasons for its particular shape. Explain the concept of JIT. How does it 5. (a) help a manufacturing system to improve 7 quality? Discuss the significance of Quality Circles (b) in Total Quality Management (TQM). 7 What is the purpose of Quality Function 6. (a) Deployment (QFD) ? How does it accomplish that purpose? 7 How can design teams improve the quality **(b)** of design? Explain with the help of a 7 suitable example. Write short notes on any four of the following: 7. $4 \times 3 \frac{1}{2} = 14$ Quality concept in design (a) Quality in sales and services **(b)** Human factor in Quality (c) (d) Economics of Quality value (e) **ISO 9000**