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Question Paper Code	12186
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B.E. / B.Tech. - DEGREE EXAMINATIONS, NOV / DEC 2023

Seventh Semester

Mechanical Engineering

GE8077 - TOTAL QUALITY MANAGEMENT

(Regulations 2017)

Duration: 3 Hours

Max. Marks: 100

PART - A (10 × 2 = 20 Marks)

Answer ALL Questions

- | | Marks,
K-Level, CO |
|---------------------------------------------------|-------------------------------|
| 1. Recall the definition of the term quality. | <i>2,K1,CO1</i> |
| 2. List the dimensions of service quality. | <i>2,K1,CO1</i> |
| 3. Explain the term employee empowerment. | <i>2,K1,CO2</i> |
| 4. Interpret the term 5s. | <i>2,K2,CO2</i> |
| 5. Identify the objectives of Benchmarking. | <i>2,K2,CO3</i> |
| 6. Organize the stages of FMEA. | <i>2,K2,CO3</i> |
| 7. Show the key elements of TPM. | <i>2,K1,CO4</i> |
| 8. Name the components cost of internal failures. | <i>2,K1,CO4</i> |
| 9. Explain Quality Audits in an organization. | <i>2,K1,CO5</i> |
| 10. Relate QS 9000 with TS 16949 quality system. | <i>2,K1,CO5</i> |

PART - B (5 × 13 = 65 Marks)

Answer ALL Questions

11. a) What are the barriers to TQM implementation? How to overcome the same? *13,K2,CO1*

OR

- b) Discuss the implementation principles of TQM and explain the importance of the Management commitment. *13,K2,CO1*

12. a) Explain the step by step procedure in strategic quality planning. *13,K2,CO2*

OR

- b) What do you understand by the term quality statements? Elaborate them with examples. *13,K2,CO2*

13. a) How is a cause-and-effect diagram constructed? Discuss in detail with an example. *13,K2,CO3*

OR

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create

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b) Explain in detail the concept of six-sigma with an example. *13,K3,CO3*

14. a) Examine in detail how the house of quality is constructed citing an example. *13,K3,CO4*

OR

b) Explain the Objectives, Features, and Structures of quality circle. *13,K2,CO4*

15. a) Explain the steps followed to get ISO 9000 certification for IT industry. *13,K2,CO5*

OR

b) Explain briefly the concept and requirements of ISO 14000. *13,K3,CO5*

PART - C (1 × 15 = 15 Marks)

16. a) Compare and Contrast the contributions of Deming, Juran and Crosby. *13,K3,CO6*

OR

b) How is PDSA cycle prepared? Give example and explain it. *13,K3,CO6*