21ME732

Seventh Semester B.E./B.Tech. Degree Examination, Dec.2024/Jan.2025 Total Quality Management

Time: 3 hrs. Max. Marks: 100

| | N | ote: Answer any FIVE full questions, choosing ONE full question from each mo | odule. |
|----------|----------|---|--------------------------|
| 1 | a. b. | Module-1 Define total quality management and describe the basic approach of TQM. Describe TQM framework with neat schematic representation. | (10 Marks) (10 Marks) |
| | | OR | |
| 2 | a. | Explain the contributions of following Gurus of TQM. | |
| | 1 | i) Walter a shewart ii) Joseph Juren. | (10 Marks) |
| | b. | Enumerate the process in the documentation of ISO 9000. | (10 Marks) |
| Module-2 | | | |
| 3 | a. | List Deming's 14 principles and describe any two principles. | (10 Marks) |
| | b. | Enumerate the characteristics of successful leader. | (10 Marks) |
| | | | |
| 4 | | OR | (10 Maylys) |
| 4 | a. b. | Describe the role of TQM leaders. Explain the steps in decision making process. | (10 Marks) (10 Marks) |
| | υ. | Explain the steps in decision making process. | (10 Marks) |
| Module-3 | | | |
| 5 | a. | Illustrate the customer perception of quality. | (10 Marks) |
| | b. | Analyse any four methods of collecting voice of customers. | (10 Marks) |
| | | OR | |
| 6 | a. | Describe the Mashlow's Hierarchy of needs. | (10 Marks) |
| | b. | Illustrate KANO model, that helps in translating needs into requirements with | |
| | | | (10 Marks) |
| | | Nr. 1.1.4 | |
| 7 | a. | Module-4 Describe Juren Triology for quality improvement. | (10 Marks) |
| , | b. | Explain six sigma concept for continuous quality improvement. | (10 Marks) |
| | | Zapidin sat signid concept to comments quanty ampre concern | (=======) |
| | | OR | |
| 8 | a. | Interpret the 4 different methods of improvement straggles used for continuous in | |
| | . 1 | in TQM. | (10 Marks) |
| | b. | Illustrate the following with a neat sketch: i) Histogram ii) Pareto diagram. | (10 Marks) |
| Module-5 | | | |
| 9 | a. | Describe 8 pillars related to TPM. | (10 Marks) |
| | b. | Illustrate the concept of '5s' foundation applied to TPM. | (10 Marks) |
| OB | | | |
| 10 | 2 | OR Enumerate the types of maintenance in TPM. | (10 Marks) |
| 10 | a. b. | Illustrate the benefits and challenges of Quality by Design (QbD). | (10 Marks) |
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