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GUJARAT TECHNOLOGICAL UNIVERSITY BE SEMESTER- 7th EXAMINATION - SUMMER 2015

| Subject Code: 172504 | | t Code: 172504 Date: 04/05/201 | Date: 04/05/2015 | |
|----------------------|----------------|---|------------------|--|
| Ti | me:0 | | 70 | |
| | 1. 2. 3. | | | |
| Q.1 | (a) | Define total quality management (TQM). What is the importance of kaizen in TQM? | 07 | |
| | (b) | Define reliability. Explain the importance of system reliability by considering the series and parallel reliability. | 07 | |
| Q.2 | (a) (b) | Describe the role of on seven magnificent quality tools. What is quality function deployment (QFD)? How does house of quality play an important role in QFD? | 07 07 | |
| | (1) | OR | ~- | |
| | (b) | Explain the necessity of total productive maintenance (TPM). | 07 | |
| Q.3 | (a) | Describe the concept of quality management. | 07 | |
| X | (b) | Differentiate between quality audit and quality assurance. | 07 | |
| | | OR | | |
| Q.3 | (a) | Explain the importance of benchmarking with an example. | 07 | |
| C | (b) | Describe the role of quality council of India in quality management. | 07 | |
| Q.4 | (a) | Describe the quality related priorities' of Indian Industries considering the present | 07 | |
| | (b) | scenario. Write a brief note on various quality management practices. | 07 | |
| | (0) | while a orier note on various quanty management practices. | 07 | |
| 0.4 | | OR | 07 | |
| Q.4 | (a) | What is intellectual property right (IPR)? What are the advantages of filing the right? | 07 | |
| | (b) | Define: patent, copyright, industrial design, trademark. | 07 | |
| 0.5 | | | 07 | |
| Q.5 | (a) | Differentiate between product and service. How does service quality management differ than the product quality management? | 07 | |
| | (b) | "Poka-Yoke is the best approach that accelerates the quality management" give your comments. | 07 | |
| 05 | (a) | OR Write a brief note on experimental design in analyzing the quality. | 07 | |
| Q.5 | (a) (b) | "Reliability engineering is an important aspect of quality management" explain. | 07 07 | |
