(b) Discuss the uses of control charts.

(c) Discuss the effect of variable sample size on control charts and how it is managed?

6. (a) Explain the factors affecting reliability and methods of calculating mean time to failure.

(b) Explain the ISO : 9000 series and its importance in international quality management system.

(c) Explain the concept of just-in-time.

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No. of Printed Pages : 04

Following Paper ID and Roll No. to be filled in your Answer Book.

PAPER ID : 33234 Roll No. 1 2 2 0 4 6 0 3 8

B.Tech./B.Arch. Examination, 2025-26

(Odd Semester)

QUALITY MANAGEMENT

Time : Three Hours] *[Maximum Marks : 60*

Note :– Attempt all questions.

SECTION – A

1. Attempt all parts of the following : 8×1=8

(a) What is total quality management?

(b) What do you understand by procurement?

(c) What are quality costs?

(d) What are the important role of human factors in quality control?

(e) Whatis control chart?

(f) Define P-chart.

(g) Write the full form of MTTF.

(h) What is zero defects?

SECTION – B

2. Attempt any two parts of the following : 2×6=12

(a) Explain the modern concept of quality and its importance in today's competitive global market.

(b) Discuss how an organization can be desinged and fitted for different types of products to maintain quality standards?

(c) Describe the steps involved in the construction and analysis of R-charts.

(d) Describe the role and benefits of quality circles in improving product-quality.

SECTION – C

Note :– Attempt all questions. Attempt any two parts from each questions. 8×5=40

3. (a) Explain the step involved in controlling the quality of purchased products.

(b) Explain the concept of quality in sales and services.

(c) Discuss the role of inspection and product control in maintaining manufacturing quality.

4. (a) Discuss the methods of optimizing quality cost in manufacturing industries.

(b) Explain the role of human factors in quality control.

(c) Discuss the attitude of top management and its effect on overall quality performance.

5. (a) Explain how control charts can help in process improvement and defect reduction?

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