

24481

B.Tech. 7th Semester (ME)
Examination, December-2015
QUALITY ENGINEERING
Paper-ME-417-F

Time allowed : 3 hours [Maximum marks : 100]

Note : Attempt five questions. Question No. 1 is compulsory and attempt at least one question from each section.

1. Explain the following :
- (a) Quality cost categories.
 - (b) TQM tools
 - (c) Acceptance sampling by attributes
 - (d) Control charts. 4×5=20

Section-A

2. (a) Discuss quality management systems and quality assurance. 10
- (b) Define quality, quality characteristics and parameters of fitness for use. 10
3. Discuss in detail about quality costs concept, quality cost categories and ISO 9000 quality system standards. 20

Section-B

4. (a) Define quality control and SQC. What are the aims and advantages of SQC? 10
- (b) Discuss probability distribution in detail. 10

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5. (a) Explain frequency distribution and the Histogram in detail. 10
- (b) Explain natural tolerance limits and specification limits. 10

Section-C

6. Explain acceptance sampling, principal of acceptance sampling and acceptance sampling by attributes. 20
7. Construct an OC curve from the following data. Sample size = 40, acceptance no. = 02. Would the OC curve be different if the sample size is doubled. 20

Section-D

8. What is TPM and explain in detail the implementation procedure of TPM in an organization with its advantages. 20
9. Explain the various quality management tools in detail. 20

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