

Roll No.

24481

B. Tech. (ME) 7th Semester (Re-appear)

Examination – October, 2020

QUALITY ENGG.

Paper : ME-417-F

Time : 1.45 Hours] [Maximum Marks : 100

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt any *three* questions. All questions carry equal marks.

1. (a) What is economics of quality ?
(b) What is narrow limit gauging ?
(c) What is lot quality protection ?
(d) What is FMEA ?
2. (a) What is quality ? What is its importance in industry.
(b) Explain the Pareto analysis ?

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3. Explain the following :
- (a) Quality cost categories.
 - (b) ISO 900 quality system.
4. (a) What is normal probability distribution ? Explain in detail ?
- (b) What is principle of acceptance sampling ?
5. Explain the following :
- (a) Average outgoing quality protection.
 - (b) Binomial distribution
6. (a) What is the statistical about of control charting ?
- (b) Explain the concept of variation in quality control ?
7. Explain the following :
- (a) X and R charts
 - (b) Natural tolerance limits
8. (a) What is QFD ? Explain in detail.
- (b) Explain the taguchi quality logs function.
9. Explain the following :
- (a) Scatter diagram
 - (b) JIT system
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