

No. of Printed Pages : 03

Roll No.

W-852

B. Tech. (Weekend)

EXAMINATION, May 2018

(Eighth Semester)

(Main & Re-appear)

(ME)

MEW452

QUALITY ENGINEERING

Time : 3 Hours]

[Maximum Marks : 100

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

Note : Attempt *Five* questions in all, selecting at least *one* question from each Unit. All questions carry equal marks.

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P.T.O.

Unit I

1. (a) Define quality and describe its importance in industry. 10
- (b) Discuss the implementation of ISO : 9000 : 2000 quality systems. 10
2. (a) Discuss the economics of quality. 10
- (b) Describe the sensitivity of P chart. 10

Unit II

3. (a) What are the disadvantage associated with the control charts for variables. 10
- (b) Explain P chart in detail. 10
4. (a) Explain normal distribution. 10
- (b) Describe how dispersion can be measured in a given population. 10

Unit III

5. (a) Distinguish between Single sampling plan and Double sampling plan. 7

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- (b) Explain Producer's risk and Consumer's risk. 6
- (c) Design an OC curve for single sampling plan, $n = 300$; $C = 5$, where n is sample size and C is acceptance number. 7
6. (a) Discuss the Deming's philosophy for TQM. 10
- (b) Describe the barriers to TQM implementation. 10

Unit IV

7. (a) Explain the steps involved to establish the TPM in an organization in detail. 10
- (b) Write short note on Lean Manufacturing. 10
8. Write short notes on the following : 20
- (a) Quality Circle
- (b) AOQL
- (c) Process Capability
- (d) JIT.

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