JNIVERSITY WITH A PURPOSE

UNIVERSITY OF PETROLEUM & ENERGY STUDIES

DEHRADUN

End semester Exam (April) - 2018

Name of the Program: BBA (LM)+BBA(AM) Semester – VI

Subject Name: Total Quality Management

Max. Marks: 100

Subject Code: BBFC 117 Duration: 3 Hrs.

This question paper has 4 page(s).

This paper has 4 sections.

Section A (Attempt all, 2 marks Each)

State True or False

- 1. Mean time between failure should be low
- 2. Mean time to repair should be high.
- 3. Product liability is related to quality
- 4. Service Quality is measured by tangibles
- 5. FMEA is after the event reaction.
- 6. FMEA is not possible for process and Design
- 7. house of Quality is related to QFD.
- 8. ISO 14001 is related to environment aspects.
- 9. ISO standards are applicable to India only

Fill in the blank.

10. the three laws governing product liability in India are -----

Section B Solve Any four (5 Marks Each)

- 1. Write objectives of total productive maintenance.
- 2. Explain different types of warranties.
- 3. What is product liability?
- 4. What is a Quality circle?
- 5. What are the benefits of control Chart?



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Section C Solve Any two (15 Marks Each)

- 1. What are the rules to identify that process is out of control. Explain with charts
- 2. Explain Toyota Production System.
- 3. Explain difference between type I and type II errors for control charts.

Section D (20+ 10marks)

1. The loading time of truck is noted by an automated MHE. Thirty Samples, each of size 5 are chosen from the process. The data yield an average time of 110 minutes , with the standard deviation of 4 minutes.

Find the 3σ control limit for the process.

2. Discuss importance of control charts and tips to manage it .