D 41376

(Pages : 2)

Reg. No.

Name.

EIGHTH SEMESTER B.TECH. (ENGINEERING) [2014 SCHEME] DEGREE EXAMINATION, APRIL 2018

Mechanical Engineering

ME 14 805 A-QUALITY ENGINEERING AND MANAGEMENT

Time : Three Hours

Maximum: 100 Marks

COI

Part A

Answer any eight questions.

- 1. Briefly explain about quality control.
- 2. What are the benefits of a cost-of-quality measuring system ?
- 3. Discuss the significance of quality circle.
- 4. Confer the term ISO 9000-14000.
- 5. With neat sketch briefly discuss the importance of Scatter diagram.
- 6. What are the benefits of benchmarking?
- 7. Discuss the various types of statistical tools.
- 8. Write short notes on: Sigma chart.
- 9. Compare the term accuracy and reliability.
- 10. Briefly explain about sampling error.

$(8 \times 5 = 40 \text{ marks})$

Part B

11. What effect does employee involvement have on motivation ? Explain the effect in terms of motivational theory.

12. Write short notes on :

- (i) Quality Management.
- (ii) Employee involvément.
- 13. With neat sketch explain the check sheets, defect-location check sheets, tally check sheet and defect-cause check sheet.

Or

Turn over

(7 marks)

(8 marks)

Or

 $(4 \times 15 = 60 \text{ marks})$

100

we with the property of the

S. With wat then have been with the

has a strength of the states of the states of the state

and the up to execution

1000年1008日至1

Line the vericus trace of statistic ends.

Colours the second states of the second second

Artic her mice we benn had alit

the conductors each mother an

unseraid unau

10 Briefly explana "Automatical

Lingula Villag

- 14. What are the four key documents of QFD ? Explain the purpose of each document.
- 15. With an example explain about control U-chart for non-conformities analysis.

automity by

he next here on me vetter ? Explain the

Or

Or

ingan

S mg

un in his in the

- 16. Explain the random and assignable causes of variation.
- 17. Explain about Stratified random sampling, Clustered sampling and Selected sampling.
- 18. Confer the term :

Stam.

Balaista

Sal Theory

- (i) ATI.
- (ii) AOQL.
- (iii) MTBF.