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Name.....

Reg. No.....

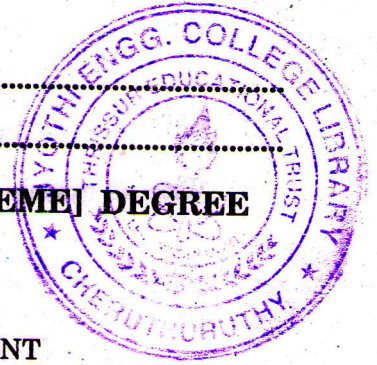
**EIGHTH SEMESTER B.TECH. (ENGINEERING) [2014 SCHEME] DEGREE
EXAMINATION, APRIL 2018**

Mechanical Engineering

ME 14 805 A—QUALITY ENGINEERING AND MANAGEMENT

Time : Three Hours

Maximum : 100 Marks



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 × 5 = 40 marks)

Part B

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

Or

12. Write short notes on :

(i) Quality Management.

(7 marks)

(ii) Employee involvement.

(8 marks)

13. With neat sketch explain the check sheets, defect-location check sheets, tally check sheet and defect-cause check sheet.

Or

Turn over

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.

Or

16. Explain the random and assignable causes of variation.
17. Explain about Stratified random sampling, Clustered sampling and Selected sampling.

Or

18. Confer the term :

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

(4 × 15 = 60 marks)