Reg. No. : | | | | | | | | | | |

Question Paper Code: 39717

B.E. / B.Tech. DEGREE EXAMINATION, MAY 2018

Elective

Mechanical Engineering

01UME917 - MAINTENANCE ENGINEERING

(Regulation 2013)

Duration: Three hours   Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 2 = 20 Marks)

1. Define maintenance.

2. Define machine availability.

3. What is meant by breakdown maintenance approach?

4. What is meant by maintenance schedule?

5. List down the key features of condition monitoring.

6. Differentiate on load testing and off load testing.

7. What is meant by sequential fault location?

8. What is the aim of event tree analysis?

9. Define root cause analysis.

10. Give the name of automobile used for material handling in industry.

PART - B (5 x 16 = 80 Marks)

11. (a) What do you mean by maintenance job planning? Discuss various steps of maintenance job planning. (16)

Or

(b) Explain MTBS, MTBF, MTTF, MTTR and failure rate. (16)

12. (a) Explain briefly about TPM with the help of flow chart. (16)

Or

(b) What are the functions of lubrication? and gives the tips on lubrication. (16)

13. (a) Explain on-load and off-load testing used in condition monitoring with its flow chart. (16)

Or

(b) Briefly explain the cost comparison with and without condition monitoring. (16)

14. (a) Briefly explain the procedure for the repair cycle of gears and lead screw. (16)

Or

(b) Explain the logical fault location methods. (16)

15. (a) State and repair methods for material handling equipment. (16)

Or

(b) Explain about the job order system. (16)

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