Question Paper Code: 59719

B.E. / B.Tech. DEGREE EXAMINATION, SEP 2020

Elective

Mechanical Engineering

15UME919 - MAINTENANCE ENGINERING

(Regulation 2015)

Duration: One hour   Maximum: 30 Marks

PART A - (6 x 1 = 6 Marks)

(Answer any Six of the following Questions)

1. General failure mode in the gears are   CO1- R

    (a) Replace of component   (b) Repair of component

    (c) Service of component   (d) All of the above

2. The following is not a classification of maintenance   CO1- R

    (a) Corrective maintenance   (b) Timely maintenance

    (c) Scheduled maintenance   (d) Preventive maintenance

3. RCM means   CO2- R

    (a) Reliable centered maintenance   (b) Reliability center maintenance

    (c) Reliability centered maintain   (d) Reliability centered maintenance

4. Maintenance schedule duration   CO2- R

    (a) Weekly   (b) Monthly   (c) Yearly   (d) All of the above

5. TPM means   CO3- R

    (a) Total Productive Maintenance   (b) Team Productive Maintenance

    (c) Total Preventive Maintenance   (d) Team Preventive Maintenance

6. Types of Non-destructive testing   CO3- R

    (a) X- Ray   (b) Scanning   (c) Ultra sound   (d) All of the above

7. Advantages of condition monitoring   CO3- R

   (a) Links between cause and effect   (b) Systems with sufficient response

   (c) Benefits out weighing cost   (d) All of the above

8. General failure mode in the gears are   CO4- R

   (a) Fatigue   (b) Wear   (c) Stress rupture   (d) All of the above

9. Name the logical fault location methods   CO4- R

   (a) Fault tree analysis   (b) Event tree analysis

   (c) Both (a) and (b)   (d) None of the above

10. Write which one is not the sources of failure   CO4- R

   (a) Improper selection of material   (b) Manufacturing defect

   (c) Assembly errors   (d) Partial failure

PART – B (3 x 8 = 24 Marks)
(Answer any Three of the following Questions)

11. Identify the strategies can you reduce the maintenance cost in the   CO1- App   (8)
    industry.

12. Explain the principles and methods of lubrication in detail.   CO2- U   (8)

13. Explain the benefits and steps of preventive maintenance.   CO2- U   (8)

14. Explain the principle and working of pistol thermometer.   CO3-U   (8)

15. Explain the repair methods of slide ways and spindle.   CO4-U   (8)

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