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Question Paper Code: 49717

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

Elective

Mechanical Engineering

14UME917 MAINTENANCE ENGINEERING

(Regulation 2014)

Duration: One hour

Maximum: 30 Marks

PART A - (6 x 1 = 6 Marks)

(Answer any six of the following Questions)

1. Critical path method technique is used for CO1- R
(a) Maintenance control (b) Maintenance planning
(c) Job distribution (d) Man power allocation
2. The ratio of the number of times we can expect an event to occur to the total number of trial undertaken is known as CO1- R
(a) Adequate performance acquirements (b) Duration of adequate performance
(c) Reliability expressed as probability (d) Environmental or operating conditions
3. Which one of the following is an element of KAIZEN CO2- R
(a) Team work (b) Total productive maintenance (c) Both a & b (d) 5S
4. Lights machines like watches, clocks are the applications of CO2- R
(a) Hydrostatic lubrication (b) Thin film lubrication
(c) Hydrodynamic lubrication (d) Extreme pressure lubrication
5. Thermistor is used to measure the CO3- R
(a) Temperature rise (b) Temperature fall (c) Temperature change (d) All the above
6. Wear debris analysis is used in CO3- R
(a) Vibration analysis (b) Thermography survey
(c) Oil analysis (d) Both a & c

7. Which one of the following factor is affecting the bearing performance CO4- R
 (a) Hot shot phenomenon (b) Tooth profile (c) Pitch error (d) Axial run out
8. Risk priority number is the CO4- R
 (a) Sum of severity, occurrence, detection ratings
 (b) Product of safety factor, occurrence, detection ratings
 (c) Sum of safety factor, occurrence, detection ratings
 (d) Product of severity, occurrence, detection ratings
9. Which one of the following is not a material handling equipment CO5- R
 (a) Fork lift (b) Conveyors (c) Crane (d) None of the above
10. Computerized Maintenance Management System includes CO5- R
 (a) Development of a database (b) Analysis of available part records
 (c) Feedback control system (d) All the above

PART –B (3 x 8 = 24 Marks)

(Answer any six of the following Questions)

11. Illustrate the different types and classes of maintenance organization. CO1-U (8)
12. Explain Total Productive Maintenance (TPM). CO2-U (8)
13. What is wear debris analysis? Explain in detail about its types. CO3-U (8)
14. Explain the logical fault location methods.. CO4-U (8)
15. Explain various repair methods of conveyors, hydraulic lift and trolley. CO5-U (8)