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Question Paper Code: 39717

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

Elective

Mechanical Engineering

01UME917 - MAINTENANCE ENGINEERING

(Regulation 2013)

Duration: 1.15 hrs

Maximum: 30 Marks

PART A - (6 x 1 = 6 Marks)

(Answer any six of the following questions)

1. What is the third phase of equipment life cycle?
(a) Intrinsic (b) Design defect (c) Wear out failure (d) None of the above
2. The ratio of the number of times we can expect an event to occur to the total number of trail undertaken is known as
(a) Adequate performance acquirements (b) Duration of adequate performance
(c) Reliability expressed as probability (d) Environmental or operating conditions
3. Which one is not a classification of maintenance
(a) Corrective maintenance
(b) Timely maintenance
(c) Scheduled maintenance
(d) Preventive maintenance
4. Purpose of material handling is to
(a) Improve productivity (b) Reduce work fatigue
(c) Promote plant safety (d) All of these

5. Thermistor is used to measure the
 - (a) Temperature rise
 - (b) Temperature fall
 - (c) Temperature change
 - (d) All the above
6. Wear debris analysis is related to
 - (a) Oil analysis
 - (b) Temperature analysis
 - (c) Pressure analysis
 - (d) None of the above
7. Engine oil should possess a property of
 - (a) Low viscosity index
 - (b) High oxidation stability
 - (c) High pour point
 - (d) None of the above
8. Risk priority number is the
 - (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
 - (a) Fork lift
 - (b) Conveyors
 - (c) Crane
 - (d) None of the above
10. Computerized Maintenance Management System includes
 - (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 three of the following questions)

11. What do you mean by maintenance job planning? Discuss various steps of maintenance job planning. (8)
12. Explain briefly about TPM with the help of flow chart. (8)
13. What is leakage monitoring? Explain some of the leakage mediums used for condition monitoring. (8)
14. Explain FMEA with the help of flow chart. (8)
15. Explain about the job order system. (8)