Register Number:……..

KUMARAGURU
college of technology
character is life

B.E DEGREE EXAMINATIONS APRIL/ MAY 2024

(Regulation 2018)

Sixth Semester

MECHATRONICS ENGINEERING

U18MCE0017: Maintenance Engineering

COURSE OUTCOMES

CO1: Extend the concept and function of maintenance department and costs associated.

CO2: Plan for preventive maintenance.

CO3: Schedule and evaluate the maintenance.

CO4: Test the reliability in maintenance.

CO5: Analyze manpower requirement.

CO6: Explain the maintenance of mechanical and electrical systems.

Time: Three Hours **Maximum Marks: 100**

Answer all the Questions:-
PART A (10 x 2 = 20 Marks)
(Answer not more than 40 words)

1.	What are the types of maintenance?	CO1	[K_2]
2.	State the components of maintenance cost	CO1	[K_2]
3.	Differentiate brake down and preventive maintenance.	CO2	[K_2]
4.	List the objectives of corrective maintenance.	CO2	[K_2]
5.	Name the various stakeholders of maintenance scheduling	CO3	[K_2]
6.	Define Maintenance Scheduling.	CO3	[K_2]
7.	Define Root cause analysis.	CO4	[K_2]
8.	State the benefits of reliability analysis in industries.	CO4	[K_2]
9.	Give the importance of manpower planning.	CO5	[K_2]
10.	List the basic electrical maintenances.	CO6	[K_2]

Answer any FIVE Questions:-
PART B (5 x 16 = 80 Marks)
(Answer not more than 400 words)

11.	a)	Explain the importance factors considering maintenance planning.	8	CO1	[K_2]
	b)	Discuss the various cost associated with maintenance.	8	CO1	[K_2]
12.		Explain the steps involved in preventive maintenance and list their benefits of implementing.	16	CO2	[K_2]
13.		Illustrate the importance of maintenance planning and scheduling in detail, also explain three levels of maintenance schedules.	16	CO3	[K_2]
14.		Explain the three types of failure models with suitable examples.	16	CO4	[K_2]
15.		Explain the Manpower planning for maintenance jobs in process industries.	16	CO5	[K_2]
16.		Discuss the Maintenance process for conveyor system.	16	CO6	[K_2]

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