

Model Question Paper-2 with effect from 2022-23 (CBCS Scheme)

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Fourth Semester B.E. Degree Examination Condition Monitoring and Maintenance Management

TIME: 03Hours

Max. Marks:100

Note: 01. Answer any FIVE full questions, choosing at least ONE question from each MODULE.

Module -1			CO	*Bloom's Taxono	Marks
Q.01	a	Explain objectives and scopes of maintenance	CO 1	2	10
	b	Explain maintenance strategies with suitable examples	CO 1	2	10
OR					
Q.02	a	Explain Preventive Maintenance planning and scheduling	CO 1	2	10
	b	Explain Fault Tree Analysis (FTA) as a modeling and analysis technique in PM	CO 1	2	10
Module 2					
Q.03	a	What are the benefits and applications of Computerized Maintenance Management systems?	CO 2	2	10
	b	Explain maintenance of typical rotating equipment systems like turbines?	CO 2	2	10
OR					
Q.04	a	Define: i. Reliability, ii. MTBF and iii. MTTR	CO 2	2	10
	b	Explain system reliability, and redundancy.	CO 2	2	10
Module-3					
Q.05	a	Explain principles and benefits of RCM	CO 3	2	10
	b	Explain procedure in conducting RCM analysis	CO 3	2	10
OR					
Q.06	a	Write a note on Failure mode and effect analysis (FMEA)	CO 3	2	10
	b	Explain the nature of Failure and Technical history.	CO 3	2	10

Module-4					
Q.07	a	What are goals of Total Productive Maintenance?	CO 3	2	10
	b	Explain Total Productive Maintenance improvement plan and procedures	CO 3	2	10
OR					
Q.08	a	What are the modern roles of care and asset management through Productive Maintenance	CO 3	2	10
	b	Explain Pareto analysis, and Fishbone diagrams	CO 3	2	10
Module-5					
Q.09	a	Explain the measurable phenomena associated with degradation of plant items	CO 4	3	10
	b	Explain fault diagnosis of shaft and coupling misalignments?	CO 4	3	10
OR					
Q.10	a	Explain strategies and associated technologies for Condition Monitoring by light emission	CO 4	3	10
	b	Explain Data Processing and Analysis through digital signal processing	CO 4	3	10