10AU844

Fourth Semester B.E. Degree Examination, June/July 2019 **Maintenance Engineering**

Time: 3 hrs. Note: Answer FIVE full questions, selecting Max. Marks: 100

atleast TWO questions from each part.

PART - A

1		Define maintenance? List out objectives and functions of maintenance department in a organization. List out various types of maintenance system. Explain any two in brief. Write a note on condition monitoring. (05 Maintenance department in a condition of maintenance department in a condition of maintenance department in a condition.	rks) rks)
2	a.	List out various activities involved in inspection, repair, replacement and overhaul in br	rief.
	b.	Explain in brief repair cycle and repair complexity. (06 Mar	rks)
	c.	Explain in brief the economical and financial factor to be consider while study	
		replacement analysis. (06 Man	rks)
3	a.	Define failure. List out various modes of failures. (05 Ma)	rks)
	b.	Explain in brief the performance evaluation of a maintenance department. (07 Mai	
	c.	List out various steps followed in complete overhauling of a machine tool. (08 Mar.)	rks)
4	a.	List out various types of maintenance scheduling. Explain any two on brief. (10 Ma	
	b.	List out various planning techniques used in maintenance planning and explain any two	o in
		brief. (10 Ma	rks)

PART - B

(08 Marks) Discuss the various benefits of computerizing maintenance systems. (06 Marks) b. (06 Marks)

Explain in brief, how computer play an important role in maintenance department.

- Write a note on Computerised Maintenance Management System CMMS. C.
- Explain in brief any two types of safety organization in an industries. (08 Marks) 6 a. How do you define industrial accidents? List out and explain various causes for an
 - (06 Marks) accidents. c. Write a note on economic importance of accidents. (06 Marks)
- What is meant by safety standards? Explain in brief safety standards in corporate for 7 (08 Marks) building Aisles and passages.
 - b. Explain in brief the safety standards incorporated in an:
 - i) Electrical equipments
 - ii) Material handling equipments
 - iii) Chemical hazards.

(12 Marks)

- Define noise. List out various source of noise in an industries. (06 Marks) 8
 - Explain in brief working of mechanical dust collectors and electro static precipitators.

(14 Marks)

On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8=50, will be treated as malpractice. Important Note: 1.

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