U.S.N					



P.E.S. College of Engineering, Mandya - 571 401

(An Autonomous Institution affiliated to VTU, Belagavi)

Sixth Semester, B.E. - Mechanical Engineering Semester End Examination; May / June - 2019 Maintenance Engineering

Time: 3 hrs Max. Marks: 100

Note: Answer *FIVE* full questions, selecting *ONE* full question from each unit.

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1 a.	a. Define maintenance and explain the objective of maintenance system.									
b.	b. State the steps involved in the system approach to ensure better maintenance performance.									
2 a.	Explain preventive maintenance. Briefly discuss the main activities of	10								
	preventive maintenance.	10								
b.	b. Explain the following:									
	i) Condition based maintenance ii) Total productive maintenance									
	UNIT - II									
3 a.	a. Explain; i) Repair complexity ii) Replacement.									
b.	b. Explain how to find most optional preventive maintenance frequency?									
4 a.	a. Discuss modes of machine failures and its causes.									
b.	b. State the benefits of maintenance evaluation.									
	UNIT - III									
5 a.	a. Explain planning for maintenance function.									
b.	b. Discuss 'man power allocation by maintenance management group'.									
6 a.	a. List the activities of scheduling process.									
b.	b. Discuss maintenance control and explain estimation of maintenance work.									
	UNIT - IV									
7 a.	a. Discuss features and benefits of computer aided maintenance.									
b.	b. Explain 'Noise pollution' control.									
8 a.	a. Write a note on industrial vibration and its control.									
b.	Discuss application of computers in maintenance work.									
	UNIT - V									
9 a.	a. Discuss the economic importance of accident.									
b.	b. Explain various causes of fire.									
10 a.	Write a note on analysis of accident safety standards for mechanical equipment and	0								
	electrical system.	8								
	Discuss chemical hazards.									
b.	Discuss chemical hazards.	6								