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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 - 2018

Maintenance Engineering

Time: 3 hrs

Max. Marks: 100

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

UNIT - I

- 1 a. Define maintenance system. What are the objectives of maintenance system? 10
- b. What are the factors which influence plant availability? Explain their relationship with maintenance. 10
- 2 a. Explain briefly any two methods of maintenance in any industries. 10
- b. What is preventive maintenance? Under what situation are these techniques adopted? 10

UNIT - II

- 3 a. Explain equipment replacement policy. 10
- b. With a short notes on : 10
- (i) Repair (ii) Replacement cycle
- 4 a. What are the causes of machine failure? Explain briefly. 10
- b. Explain different types of complete overhauling of machine tools. 10

UNIT - III

- 5a. Discuss the role of maintenance scheduling in maintenance function. 10
- b. Design a suitable spare parts control system for the maintenance department of a short range manufacturing industry. 10
- 6a. Explain briefly planning techniques and procedures. 10
- b. Write a note on inventory control of spare parts. 10

UNIT - IV

- 7 a. What are the applications of computer to maintenance work? Explain briefly. 10
- b. Sketch and explain wet type collectors used in pollution control. 10
- 8 a. Discuss the features and benefits of computerizing of maintenance system. 10
- b. What are the vibrations control techniques? Explain briefly. 10

UNIT - V

- 9 a. What are the types of safety organizations? Explain any three safety organization. 10
- b. What are the various causes of fire? Explain briefly. 10
- 10 a. What are the important chemical hazards in organizations? Explain briefly. 10
- b. Explain the safety measures required while working on welding machine. 10