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10AU844

**Eighth Semester B.E. Degree Examination, Aug./Sept.2020**

**Maintenance Engineering**

Time: 3 hrs.

Max. Marks:100

**Note: Answer any FIVE full questions, selecting at least TWO questions from each part.**

**PART - A**

- 1 a. Define maintenance. Explain scope, objectives and functions of maintenance engineering. (10 Marks)  
b. What are different types of maintenance? Explain any four types of maintenance in brief. (10 Marks)
- 2 a. Explain the economical and financial factors to be considered while studying replacement analysis. (10 Marks)  
b. Explain repair cycle and repair complexity. (10 Marks)
- 3 a. Explain the various maintenance stages for a lathe. (10 Marks)  
b. Explain about maintenance planning and scheduling. (10 Marks)
- 4 a. Write a detailed note on long range planning and short range planning. (10 Marks)  
b. Write about manpower allocation. (05 Marks)  
c. Explain the importance of maintenance planning. (05 Marks)

**PART - B**

- 5 a. Write about features and benefits of computers in maintenance management system. (10 Marks)  
b. Explain application of computers to maintenance work. (10 Marks)
- 6 a. Discuss in detail the causes of an industrial accident. (10 Marks)  
b. Define industrial safety. Explain the different types of safety organization. (05 Marks)  
c. Write about economic importance of accidents. (05 Marks)
- 7 a. Briefly explain in general the safety standards for material handling equipment. (05 Marks)  
b. Briefly explain safety standards for chemical hazards and plant housekeeping building. (10 Marks)  
c. What are the precautionary measures to be taken while working on welding machines? (05 Marks)
- 8 a. With the neat sketch explain electro static precipitator filtration method. (08 Marks)  
b. With the neat sketch explain sedimentation method. (06 Marks)  
c. Write a note on noise control technique. (06 Marks)

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