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10AU844

Eighth Semester B.E. Degree Examination, June/July 2018
Maintenance Engineering

Time: 3 hrs.

Max. Marks: 100

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

PART – A

- 1 a. State any six objectives of maintenance. (06 Marks)
b. What do you mean by preventive maintenance? State and explain any four main activities of preventive maintenance. (10 Marks)
c. List out any four benefits derived from total productive maintenance. (04 Marks)
- 2 a. Discuss Repair versus replacement with suitable examples. (06 Marks)
b. How do you find out optimal preventive maintenance frequency? (04 Marks)
c. Explain the concept of determining economic value of preventive maintenance. (10 Marks)
- 3 a. What are the various possible causes for a machine failure? (04 Marks)
b. List out the activities of maintenance scheduling. (08 Marks)
c. Discuss the factors, which need to be considered for implementation of an efficient spare parts control system. (08 Marks)
- 4 a. Describe CPM and PERT as applied of maintenance planning. (12 Marks)
b. Discuss any two methods of estimation of maintenance work. (08 Marks)

PART – B

- 5 a. List out the main advantages of using computers in decision making for maintenance functions. (08 Marks)
b. Describe computerized maintenance models used in practice. (12 Marks)
- 6 a. Explain the importance of industrial safety. (08 Marks)
b. Explain step by step method of investigating an industrial accident. (12 Marks)
- 7 a. Explain briefly safety standards and codes of practice for electrical equipment and system. (10 Marks)
b. List out safety standards used for arc welding and material handling. (10 Marks)
- 8 a. State and explain the effects of industrial pollution. (10 Marks)
b. Explain any five effective measures to control noise pollution. (10 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.