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10MA764

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

Time: 3 hrs.

Max. Marks:100

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

PART – A

- 1 a. Define maintenance. State its objectives and functions. (10 Marks)
b. What is preventive maintenance? Write its objectives and functions. (10 Marks)
- 2 a. What is repair cycle? Explain. (08 Marks)
b. Write note on repair complexity. (06 Marks)
c. Explain optimal inspection frequency. (06 Marks)
- 3 a. What are the causes of machine failure? Explain. (10 Marks)
b. Write procedure for complete overhaul of metal cutting equipment. (10 Marks)
- 4 a. Explain maintenance planning and the factors involved in it. (10 Marks)
b. A project schedule has the following characteristics.

Activity	1-2	1-4	1-7	2-3	3-6	4-5	4-8	5-6	6-9	7-8	8-9
Time	2	2	1	4	1	5	8	4	3	3	5

Construct the Pert network and find the critical path and time duration of the project.

(10 Marks)

PART – B

- 5 a. What is maintenance information system? Explain. (10 Marks)
b. Write the characteristics and benefits of computer aided maintenance. (10 Marks)
- 6 a. Explain economic importance of accidents. (10 Marks)
b. Explain the analysis of accident safety standards for mechanical equipments. (10 Marks)
- 7 Explain the safety management of :
a. Plant floors
b. Material handling systems
c. Plant house keeping
d. Exhaust systems. (20 Marks)
- 8 a. Write note on industrial noise measurement and control. (10 Marks)
b. Explain the Dust control in industry. (10 Marks)

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.