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

Time: 3 hrs.

Max. Marks: 80

*Note: i) For Regular Students: Answer any FIVE full questions irrespective of modules.
ii) For Arrear Students : Answer any FIVE full questions, choosing ONE full question from each module.*

Module-1

- 1 a. What should be the objectives of maintenance management for successful working of a maintenance department? (06 Marks)
- b. Enumerate types of maintenance and explain in brief. (10 Marks)
- 2 a. What is availability of a machine or system? Explain how to increase operational availability of machine. (08 Marks)
- b. Discuss the selection of preventive or breakdown maintenance. (08 Marks)

Module-2

- 3 a. Discuss the causes for machine failure. Enumerate types of machine failure. (08 Marks)
- b. What is performance evaluation? Why is it done? What are its objectives? (08 Marks)
- 4 a. Write a note on planning and scheduling of maintenance. (08 Marks)
- b. What is spare part control? Explain the methods to optimize spare part control. (08 Marks)

Module-3

- 5 a. Explain repair vs replace. (04 Marks)
- b. Explain repair complexity. (04 Marks)
- c. Write a note on estimation of maintenance work. (08 Marks)
- 6 a. Discuss various maintenance planning techniques and planning procedures. (08 Marks)
- b. Give an account of maintenance control. (08 Marks)

Module-4

- 7 a. Explain the role of computers in maintenance management. (08 Marks)
- b. What are various computer modules? Explain in brief. (08 Marks)
- 8 a. What are the objectives of industrial safety? Explain. (08 Marks)
- b. What are industrial accidents? Discuss the causes and ill effects of accidents. (08 Marks)

Module-5

- 9 a. What are the safety standards incorporated in material handling and electrical equipments? (10 Marks)
- b. Write a note on chemical hazards in an industry. (06 Marks)
- 10 Discuss following for dust collection: (16 Marks)
 - a. Gravitational separators
 - b. Cyclone separators
 - c. Wet type collectors.

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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.