

CBCS SCHEME

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17AU834

Eighth Semester B.E. Degree Examination, July/August 2021 Maintenance Engineering

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions.

- 1 a. Define maintenance. What are the objective and importance of maintenance system? (10 Marks)
b. What are the different types of maintenance system? explain any four in detail (10 Marks)
- 2 a. What are different functions of maintenance? Explain briefly. (10 Marks)
b. What is condition monitoring? What are the problems on selection of methods? Explain briefly. (10 Marks)
- 3 a. Explain briefly, what are the causes of machine failure? And also mention types of failures. Explain briefly. (12 Marks)
b. Discuss the preventive maintenance procedure for a grinding machine. (08 Marks)
- 4 a. Explain the maintenance procedure for complete overhaul of shaper. (10 Marks)
b. Write a short notes on the following :
i) Maintenance Job analysis
ii) Spare parts control. (10 Marks)
- 5 a. Write a short notes on the following :
i) Repair cycle ii) Replacement iii) Repair complexity. (10 Marks)
b. Define planning of maintenance? What are the functions of planning of maintenance? Explain briefly. (10 Marks)
- 6 a. What are the cost reduction with maintenance planning and scheduling, explain briefly. (10 Marks)
b. Write a short notes on following ;
i) Long range planning ii) Short range planning (10 Marks)
- 7 a. What are the benefits of Computer in Maintenance Management System (CMMS). Explain. (10 Marks)
b. What are the factors affecting selection of CMMS? Explain briefly. (06 Marks)
c. List applications of computer to maintenance work. (04 Marks)
- 8 a. Define safety organization. Explain various types of safety organization. (08 Marks)
b. Briefly explain the analysis consideration and safety standard for mechanical and electrical equipment. (12 Marks)
- 9 a. What are the safety standard to be followed in a plant for good housekeeping. Explain briefly. (10 Marks)
b. Define fire extinguishers. What are the different types of fire extinguishers? Explain any two of them. (10 Marks)
- 10 a. What are classifications of dust collectors? Explain with a help of suitable diagram working principle of mechanical dust collectors for gravitational separators. (10 Marks)
b. What are the different techniques of Noise and vibration control? Explain two stage isolation vibration controls with neat sketch. (10 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.