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P.E.S. College of Engineering, Mandya - 571 401

(An Autonomous Institution affiliated to VTU, Belagavi)

Eighth Semester, B.E., - Mechanical Engineering

Semester End Examination; July - 2021

Maintenance Engineering

Time: 3 hrs

Max. Marks: 100

Note: Answer any FIVE full questions.

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| 1 a. | Explain the functions of maintenance department. | 10 |
| b. | Discuss the importance of maintenance system. | 10 |
| 2 a. | Explain condition based monitoring and list the different methods of condition based monitoring. | 10 |
| b. | List the different types of maintenance system and explain design out maintenance system. | 10 |
| 3 a. | Explain different categories (stages) of repair cycle. | 10 |
| b. | Construct the model for optimal overhead / Repair / Replacement policy for equipment subjected to failure. | 10 |
| 4 a. | Explain the objectives of performance evolution of maintenance department. | 10 |
| b. | Discuss the causes of machine failure. | 10 |
| 5 a. | Explain the different identified factors of maintenance planning. | 10 |
| b. | Write a note on maintenance job analysis. | 10 |
| 6 a. | What is maintenance scheduling? Explain principle of scheduling. | 10 |
| b. | Explain planning techniques and procedures. | 10 |
| 7 a. | Explain the financial and operational benefits of CMMS. | 10 |
| b. | Explain the features of good computerized work order system. | 10 |
| 8 a. | With a neat sketch, explain centrifugal or cyclone scrubber. | 10 |
| b. | Explain noise control techniques. | 10 |
| 9 a. | Explain the three types of safety organization. | 10 |
| b. | Discuss on analysis of accidents records. | 10 |
| 10 a. | Explain safety standards for mechanical equipment. | 10 |
| b. | Write a note on plant house keeping for safety. | 10 |

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