Roll No. ⬜⬜⬜⬜⬜⬜⬜⬜⬜⬜   **Total No. of Pages : 02**

Total No. of Questions : 09

B.Tech (Ind. Engg. & Mgt.) (Spl. in TQM) (Sem.–5)
MAINTENANCE & PROJECT MANAGEMENT
Subject Code : IEM-503
Paper ID : [70994]

Time : 3 Hrs.   **Max. Marks : 40**

INSTRUCTIONS TO CANDIDATES :
1. Attempt All EIGHT questions from SECTION-A carrying TWO marks each.
2. Attempt any SIX questions out of EIGHT from SECTION-B carrying FOUR marks each.

SECTION-A

1. a) Explain the objectives of carrying out maintenance in a manufacturing organization.

    b) Define MTTR, MTBF. What do you understand by these indicators and what are their differences?

    c) Explain the techniques used by manufacturing organizations for setting maintenance time standards.

    d) Explain typical problems faced by maintenance functions in various organizations.

    e) What do you understand by reliability centered maintenance? Write short note on brief history and applications of RCM.

    f) Define project management. How projects can be classified?

    g) Differentiate between CPM and PERT techniques for network analysis.

    h) Write short note on computerized project management system.

SECTION-B

2. Discuss the salient features, advantages and limitations of breakdown, planned and preventive maintenance techniques.

3. Discuss the types of maintenance planning strategies giving appropriate examples.

4. How do organizations prepare and execute maintenance budget?

5. How organizations carry out benchmarking in maintenance management? Explain the procedure adopted for benchmarking in maintenance management.

6. What is oil analysis? How do organizations carry out evaluation of physical properties of oil and metal ppm in oil?

7. Discuss common mistakes in planning and scheduling of projects. How these mistakes can be avoided?

8. What is Project crashing in project management? Explain tradeoffs in cost-time giving appropriate example.

9. How system performance is evaluated towards the end of project management cycle?