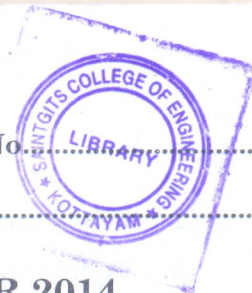


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Reg. No.....

Name.....



B.TECH. DEGREE EXAMINATION, NOVEMBER 2014

Seventh Semester

Branch : Mechanical Engineering/Production Engineering

PE 010 706 L05/ME 010 706 L01 – PLANT ENGINEERING AND MAINTENANCE

(Elective II) [PE, ME]

(New Scheme – 2010 Admission onwards)

[Regular/Supplementary]

Time : Three Hours

Maximum : 100 Marks

Part A

Answer all questions.

Each question carries 3 marks.

1. Explain corrective maintenance.
2. Explain the classification of wear.
3. Explain failure ratio.
4. Explain overall equipment effectiveness.
5. Explain waste recycling.

(5 × 3 = 15 marks)

Part B

Answer all questions.

Each question carries 5 marks.

6. Explain condition based maintenance.
7. Explain plasticity dominated wear.
8. Explain MAPI method.
9. Explain fluorescent dye technique.
10. Explain fire protection and prevention.

(5 × 5 = 25 marks)

Part C

Answer all questions.

Each question carries 12 marks.

11. Explain deterioration and failure analysis.

Or

Turn over

12. Sketch and explain layout of facilities.
13. Explain "wear regime maps for metals".

Or

14. Explain different types of sliding wear.
15. Explain Inherent reliability and achievable reliability.

Or

16. Explain the important factors to be considered in determining the reliability of industrial systems.
17. Explain TPM.

Or

18. Explain vibration analysis with example.
19. How chemical hazards can be minimised? Explain with a suitable example.

Or

20. Write a note on pollution control. Explain with an example.

(5 × 12 = 60 marks)

