

B.TECH. DEGREE EXAMINATION, MAY 2014**Seventh Semester**

Branch : Mechanical Engineering

PLANT ENGINEERING AND MAINTENANCE (Elective I) (M)

(Old Scheme – Prior to 2010 Admissions)

[Supplementary]

Time : Three Hours

Maximum : 100 Marks

**Part A***Answer all questions.**Each question carries 4 marks.*

1. Explain the term corrosive wear.
2. What do you mean by Fretting?
3. Write the properties of synthetic lubricant.
4. Explain the significance of cloud point.
5. Comment on Sudden and Gradual obsolescence.
6. What do you mean by SWOT analysis? Explain its significance.
7. Explain the terms Maintainability and Availability.
8. Explain the term Reliability.
9. Explain the significance of an accident prevention programme.
10. Explain the significance of diagnostic instruments for maintenance and inspection.

(10 × 4 = 40 marks)

Part B*Answer all questions.**Each question carries 12 marks.*

11. Explain the various theories of wear.
- Or*
12. Explain the procedure of calculation of working life.
 13. Explain the various tests adopted for lubricants.

Or

14. Explain the various lubrication equipments and components.

Turn over

15. Explain any *two* methods of failure analysis.

Or

16. Explain the various steps involved in planning, scheduling and controlling of maintenance.

17. Explain how the reliability of a standby system is determined.

Or

18. Explain the procedure of estimation of reliabilities of series and parallel system.

19. Explain any *three* non-destructive testing methods.

Or

20. Explain any *one* procedure of inventory control of spare parts.

(5 × 12 = 60 marks)

