

**DIPLOMA VI EP DIPLOMA IN MECHANICAL
ENGINEERING (DMEVI)**

Term-End Examination

December, 2012

BIME-028 : MAINTENANCE ENGINEERING

Time : 2 hours

Maximum Marks : 70

Note: Answer any seven questions. All questions carry equal marks.

1. List the functions of maintenance department. 10
Briefly explain each of them.
2. Explain the merits and demerits of centralised and 10
decentralised maintenance department in a large
manufacturing industry.
3. Briefly describe the following : 10
(a) Preventive maintenance.
(b) Break down maintenance.
4. Determine availability for each of these cases : 10
(a) MTBF = 40 days, average repair time = 3
days
(b) MTBF = 300 hours, average repair time = 6
hours.

5. Discuss the significance of scheduling in plant maintenance. 10
 6. Compare various selective inventory control techniques with reference to their basis and applications. 10
 7. Explain any four non-destructive techniques to detect and diagnose the worn out part of a machine. 10
 8. What is meant by 'availability' ? Explain different kinds of availability that occur in reliability analysis. On what factors do they depend ? 10
 9. Discuss the meaning and concept of the terms zero defects, zero breakdowns and zero accidents. 10
 10. Explain the term predictive maintenance and the importance of good records. 10
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