

**DIPLOMA - VIEP - MECHANICAL  
ENGINEERING (DMEVI)**

**Term-End Examination**

00332

**December, 2017**

**BIME-028 : MAINTENANCE ENGINEERING**

*Time : 2 hours*

*Maximum Marks : 70*

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

1. What is Maintenance ? How can it be classified ?  
Explain any one of them with suitable examples. 10
2. Explain the various factors that determine the effectiveness of maintenance in an organization. 10
3. Describe in brief, the economic aspect of maintenance. How can you select an optimum maintenance programme ? Explain. 10
4. (a) What is Machine Reconditioning ? List out the various steps involved in machine reconditioning. 5  
(b) What is Maintenance Planning ? Describe the preliminary considerations required for maintenance planning. 5

5. How can the database management system be applied in maintenance planning and scheduling? Explain. 10
6. What is Maintainability? What are the various applications of maintainability engineering? Explain. 10
7. What is Mean Time? How do you specify and apply mean time for corrective and preventive maintenance? 10
8. Write down the maintenance policies, strategies and goals of an industry. 10
9. What is the importance of reliability and quality? Explain the failure pattern of complex products. 10
10. Write short notes on any *two* of the following :  $2 \times 5 = 10$
- (a) Inventory Control of Spare Parts
  - (b) Spare Parts Procurement
  - (c) Evaluation of Maintenance Performance
  - (d) Total Planned Quality Maintenance
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