

01274

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

**Term-End Examination**

**June, 2014**

**BIME-028 : MAINTENANCE ENGINEERING**

*Time : 2 hours*

*Maximum Marks : 70*

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*Note : Answer any five questions only.*

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1. (a) Define the term 'maintenance'. Discuss its scope. 7  
(b) Describe preventive maintenance and state its benefits. 7
2. (a) Discuss the economics of maintenance function for a productive system. 7  
(b) Compare the advantages and limitations of Scheduled maintenance and Break down maintenance. 7
3. Draw a typical organisational chart for a maintenance department intended for an automobile ancillary industry. Discuss in detail. 14
4. (a) What are the critical aspects of productive maintenance ? State its advantages. 7  
(b) If you are having non-destructive laboratory, what are the ways by which you can enhance your maintenance performance by utilizing the services of computers. 7

5. Justify the following statements :
- (a) 'Down time cost makes the machine maintenance expensive'. 7
  - (b) 'Maintenance and Plant Safety go hand in hand'. 7
6. Explain the various cost reduction techniques for spare parts management. 14
7. Write short notes on **any four** of the following :
- (a) Condition monitoring **3½x4=14**
  - (b) Total Planned Quality Maintenance
  - (c) Monitoring failures
  - (d) Evaluation of maintenance performance
  - (e) Inventory Control of Spare Parts
  - (f) Shut down Planning and Execution
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