

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

**Term-End Examination**

**December, 2014**

**00005**

**BIME-028 : MAINTENANCE ENGINEERING**

*Time : 2 hours*

*Maximum Marks : 70*

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

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1. (a) State the various functions of "Maintenance". 7
- (b) "No maintenance work can proceed effectively without an information system." Discuss it in detail. 7
2. (a) "Maintenance is an important tool of Planned Productivity." Discuss in detail. 7
- (b) Explain the factors having an adverse effect on maintenance efficiency. 7
3. (a) How would work study and ergonomics improve the maintenance management in the organisation ? 7

- (b) Draw a flow chart to decide whether reactive or preventive maintenance has to be chosen in a system. 7
4. (a) What is the actual meaning of equipment asset management ? What is the objective of efficient asset management ? 7
- (b) What are the advantages and limitations of corrective maintenance ? 7
5. (a) What is the function of failure information management system ? What types of data are to be stored in this system ? 7
- (b) Discuss in detail the Indian spares management scenario. 7
6. (a) Discuss the economics of maintenance function for a productive system. 7
- (b) Why is cleaning considered as the prime important activity in maintenance, although many of the operators and supervisors give least importance to such activities ? 7
7. Write short notes on any **four** of the following :  $4 \times 3 \frac{1}{2} = 14$
- (a) Fire Hazard and Safety
- (b) NDT Techniques
- (c) Proactive Maintenance
- (d) Reliability-centred Maintenance
- (e) Maintenance Incentive Plans
- (f) Work Study and Method Study