No. of Printed Pages : 2

BIME-028

B.Tech. MECHANICAL ENGINEERING (BTMEVI)

Term-End Examination

June, 2012

BIME-028 : MAINTENANCE ENGINEERING

Time : 3 hours

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Maximum Marks : 70

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

- What do you understand by the shut-down state 10 of a machine ? What are the adverse effects of this status ?
- How is maintenance planning different from 10 general planning and production planning? Give suitable examples.

3. Distinguish between *any two* of the following : 2x5=10

- (a) Breakdown Maintenance and Emergency Maintenance
- (b) Productive Maintenance and Predictive Maintenance.
- (c) Planned Maintenance and Scheduled Maintenance.
- "Master Maintenance Scheduling" (MMS) can 10 be used as the yardstick for measuring the effectiveness of the preventive maintenance (PM) in an organisation". Justify the statement.

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- 5. Enumerate the functions of spare parts 10 management with reference to Plant Engineering. What are its distinguishable features of maintenance spares as compared to general spares ?
- 6. Illustrate the significance of condition-based 10 maintenance with suitable example.
- Describe various failure trends that a machine can 10 exhibit in its life span with suitable examples.
- 8. Define and explain the terms reliability, 10 availability and maintainability. Discuss on what factors each of these terms depend.
- 9. Explain the use of computer in maintenance 10 planning and scheduling.
- 10. What is the goal of a maintenance programme ? 10List the costs associated with equipment break down.

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