

(Set-1)

B.Tech - 8th

Maintenance Engineering and Management

Full Marks : 70

Time : 3 hours

Answer any six questions including Q. No. 1

The figures in the right-hand margin indicate marks

1. Answer *all* questions : 2 × 10
- (a) State the importance of maintenance in an aluminium plant.
 - (b) What are the different types of maintenance ?
 - (c) What is productivity circles ?
 - (d) State limitations of breakdown maintenance.
 - (e) How will you select a maintenance strategy ?
 - (f) Give a brief classification of items.
 - (g) What are the different characteristics of

(Turn Over)

- items to be maintained in the maintenance department ?
- (h) State the importance of maintenance Scheduling.
- (i) How the maintenance performance is evaluated ?
- (j) What do you mean by TPM ?
2. (a) State the different types of maintenance. How will you select a maintenance strategy for a particular type of plant ? 5
- (b) Describe the steps involved in preventive maintenance and state its limitations. 5
3. (a) State the importance of maintenance in a steel production plant. 5
- (b) State the difference between the breakdown maintenance and preventive maintenance. 5
4. (a) What do you mean by maintenance planning and state its importance. 5

- (b) State the guidelines for matching maintenance procedures for items. 5
5. (a) Describe in details the spare planning. 5
- (b) What do you mean by depreciation of the machine and describe how a machine life is estimated ? 5
6. (a) State the importance of training of maintenance personnel. 4
- (b) Describe a basic system of total productive maintenance and state its scope. 6
7. (a) What do you mean by corrective maintenance ? 5
- (b) What is maintenance scheduling and state its advantages. 5
8. Write short notes on any two : 10
- (i) Design out maintenance
- (ii) TPM
- (iii) Spare planning.