

17531

16172

3 Hours / 100 Marks

Seat No.

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- Instructions :**
- (1) All Questions are *compulsory*.
 - (2) Illustrate your answers with neat sketches wherever necessary.
 - (3) Figures to the right indicate full marks.
 - (4) Assume suitable data, if necessary.
 - (5) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

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| 1. (A) Attempt any THREE of the following : | 12 |
| (i) List the basic facilities in the plant. Explain any one in brief. | |
| (ii) Write the procedure of preventive maintenance. | |
| (iii) Define wear. State its types and causes. | |
| (iv) What are the features of TPM ? | |
| (B) Attempt any ONE of the following : | 6 |
| (i) Explain electric supply system with neat sketch. | |
| (ii) Explain industrial ventilation with neat sketch. State its importance. | |
| 2. Attempt any FOUR of the following : | 16 |
| (a) Explain accessibility for maintenance. | |
| (b) What are the advantages of preventive maintenance over breakdown maintenance ? | |
| (c) List the different maintenance stages in industry. | |
| (d) With the help of suitable example explain the machine history chart. | |
| (e) Define TPM. State its features. | |

- 3. Attempt any FOUR of the following : 16**
- (a) Explain the Pillars of TPM in brief.
 - (b) Compare adhesive wear and abrasive wear.
 - (c) What are the different lubrication systems ? Explain any one in detail.
 - (d) Describe basic systems of TPM.
 - (e) What are the benefits of lubrication ?
- 4. (A) Attempt any THREE of the following : 12**
- (i) What are the different types of maintenance ? State importance of maintenance.
 - (ii) Explain over-load relays.
 - (iii) Explain the prevention of fire due to electricity.
 - (iv) Define accident. What are its effects ?
 - (v) Explain in detail how TPM beneficial for plant.
- (B) Attempt any ONE of the following : 6**
- (i) Explain corrosive creation wear in detail.
 - (ii) What is earthing ? Explain any one method of earthing. State its advantages.
- 5. Attempt any FOUR of the following : 16**
- (a) With the help of suitable example explain fool proofing device.
 - (b) List the personal protective equipment with its application.
 - (c) Explain the causes of accident.
 - (d) Explain pitting wear.
 - (e) List the instruments needed for electrical maintenance with its application.

6. Attempt any TWO of the following :**16**

- (a) What are the impurities present in the water ? Explain necessity of purification of water and list the different methods of water purification.
 - (b) Explain the following :
 - (i) Repair Cycle
 - (ii) Scheduled maintenance
 - (c) Explain in detail
 - (i) Safety Policies
 - (ii) House Keeping
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