

17531

21819

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) Preferably, write the answers in sequential order.

Marks

1. Solve any FIVE :

5 × 4 = 20

- (a) What are the various methods used for purification of water in industry ?
Explain necessity of water purification.
- (b) Explain water distribution system in industry.
- (c) What do you understand by standby & emergency power ?
- (d) Describe electric power distribution system with the help of neat sketch.
- (e) Describe the importance of maintenance.
- (f) What are the stages of preventive maintenance ? Explain any one.

2. Solve any FOUR :

4 × 4 = 16

- (a) Write procedure of preventive maintenance of a air compressor.
- (b) Compare between preventive & scheduled maintenance.
- (c) What are the advantages of scheduled maintenance ?
- (d) Explain in detail machine history chart.
- (e) What are the different maintenance tools ? Explain it.

3. Solve any FOUR :**4 × 4 = 16**

- (a) What are the pillars of total productive maintenance ?
- (b) Write applications of TPM in industry.
- (c) Explain the basic system of TPM.
- (d) Define the term wear. What are the causes of wear ?
- (e) Describe the following wear process :
 - (i) Adhesive wear
 - (ii) Corrosive reaction

4. Solve any FOUR :**4 × 4 = 16**

- (a) Describe observed wear behaviour due to primary wear process.
- (b) Describe the importance of lubrication.
- (c) Explain with neat sketch sump lubrication system.
- (d) Write short note on selection procedure of lubricants.
- (e) Enlist the equipment required for electrical maintenance.

5. Solve any FOUR :**4 × 4 = 16**

- (a) Explain the construction of multimeter. State its use.
- (b) Explain the necessity of earthing for electrical installations.
- (c) Enlist various steps for prevention of fire due to electricity.
- (d) Define the term accident. State its type.
- (e) Explain the causes of accidents.

6. Solve any FOUR :**4 × 4 = 16**

- (a) What is mean by 'First aid' ? State its importance.
 - (b) Explain the necessity of proper housekeeping in industries.
 - (c) With the help of neat sketch explain lever controlled reversal mechanism.
 - (d) Write short note on – Fool proofing devices for interlocking.
 - (e) Prepare preventive maintenance schedule of any one machine of four choice.
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