

17558

14115

3 Hours / 100 Marks

Seat No.

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- Instructions* – (1) All Questions are *Compulsory*.
(2) Answer each next main Question on a new page.
(3) Illustrate your answers with neat sketches wherever necessary.
(4) Figures to the right indicate full marks.
(5) Assume suitable data, if necessary.

Marks

1. a) **Attempt any THREE of the following:** **12**
- (i) Describe Physiological effect of electricity.
 - (ii) Write in brief wheather Industrial noise is safety or health hazard.
 - (iii) What are the aspects to be considered in selecting eye protection equipment?
 - (iv) Describe maintenance of personal protective equipment.
- b) **Attempt any ONE of the following:** **06**
- (i) Give controlling methods for toxic chemical hazards like ammonia and chlorine.
 - (ii) Explain principle and working of CO₂ type fire extinguisher.

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2. **Attempt any FOUR of the following:** **16**
- a) What are the causes of explosion hazards?
 - b) What are the consideration while selecting respiratory equipments?
 - c) State the objectives of safety audit.
 - d) Draw neat and clean diagram of bucket elevator and name the parts.
 - e) Give classification of fire.
3. **Attempt any FOUR of the following:** **16**
- a) Explain the role of safety act in ensuring safety and welfare.
 - b) State the causes of poor material handling.
 - c) Write objectives of plant maintenance.
 - d) State advantages and applications of preventive maintenance.
 - e) Describe disadvantages of breakdown maintenance.
4. a) **Attempt any THREE of the following:** **12**
- (i) Give Safety precautions in transportation of Inflammable liquids.
 - (ii) Give classification of different types of bins.
 - (iii) Write safety instructions during maintenance.
 - (iv) What are the important points to be observed for fire prevention.
- b) **Attempt any ONE of the following:** **06**
- (i) Write construction and working of screw conveyor.
 - (ii) Describe the procedure of safety auditing.

- 5. Attempt any TWO of the following:** **16**
- a) Describe with labelled diagram construction and working of dry chemical powder type fire extinguisher.
 - b) Explain procedure for start up of the plant.
 - c) State different types maintenance and explain briefly predictive maintenance.
- 6. Attempt any TWO of the following:** **16**
- a) Write relationship between plant layout and material handling.
 - b) Draw block diagram of organisation of maintenance department.
 - c) Explain procedure for plant maintenance schedule.
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