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MIS-023

**M. SC. (INDUSTRIAL SAFETY) /
POST GRADUATE CERTIFICATE IN
INDUSTRIAL SAFETY / POST
GRADUATE DIPLOMA IN
INDUSTRIAL SAFETY
(MSCINDS/PGCINDS/PGDINDS)**

Term-End Examination

December, 2025

**MIS-023 : SAFETY IN CONSTRUCTION
INDUSTRY**

Time : 3 Hours

Maximum Marks : 70

Note : *Question No. 1 is compulsory. Attempt
any **five** more questions from the
remaining questions (Q. Nos. 2 to 8).*

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P. T. O.

1. (A) Choose the most appropriate answer from the given options : $5 \times 2 = 10$
- (i) Proper safety practices are put in place in the construction industry to ensure :
- (a) safe and healthy working conditions leading to less human suffering and waste of capital.
 - (b) insurance cover to the worker.
 - (c) first aid facilities at worksite.
 - (d) availability of latest tools and machines.
- (ii) Which one is not a cause of accidents in the construction industry ?
- (a) Falling from the ladder
 - (b) Lifting heavy loads
 - (c) Application or uses of latest machines
 - (d) Walking under suspended load

(iii) For ladder work safety, it is advised that a worker should not work atop a ladder for more than :

- (a) 1 hour
- (b) 2.5 hours
- (c) 4.0 hours
- (d) 6.0 hours

(iv) PPE stands for :

- (a) Public Protection Equipment
- (b) Personal Protective Equipment
- (c) Project Proposal Evaluation
- (d) Project Progress Evaluation

(v) The process of providing temporary supports in a trench to avoid its collapse is called :

- (a) Trenching
- (b) Scaffolding
- (c) Shoring
- (d) Shotcreting

(B) Answer the following questions : $5 \times 2 = 10$

- (i) Enlist the potential sources of air pollution at construction site.
 - (ii) Define blasting.
 - (iii) Define safety net.
 - (iv) Write the sequence of accident factors.
 - (v) Define tunneling.
2. (a) What types of training is required for underground work ? Explain briefly. 5
- (b) Discuss the precautions taken to mitigate the tunneling process hazards. 5
3. (a) Explain safety aspects to be considered while working on a tower scaffolding. 5
- (b) Discuss the accidents occurring during roof work in construction. 5
4. (a) Discuss various measures for control of dust at a construction site. 5
- (b) What precautions should be taken by the workers while moving material mechanically ? 5

5. (a) What are the responsibilities of the employer regarding safety at the work-site ? 5
- (b) Enlist various accident causation theories. Explain any *one* theory in detail. 5
6. (a) Discuss various factors to be considered prior to commencement of roof demolition. 5
- (b) Describe the waste management process at a construction site. 5
7. What are cranes ? Describe different types of cranes. 10
8. Write short notes on any *two* of the following : 2×5=10
- (a) Essentials of good training
- (b) Ergonomics of material handling
- (c) Ventilation in tunneling works

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