

Seat  
No.

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मुद्रा- 012

## Safety Management in Construction (1070)

P. Pages : 2

Time : Three Hours

Max. Marks : 100

Instructions to Candidates :

1. Do not write anything on question paper except Seat No.
2. Answersheet should be written with blue ink only. Graph or diagram should be drawn with the same pen being used for writing paper or black HB pencil.
3. Students should note, no supplement will be provided.
4. Solve **any five** questions.
5. Assume suitable data if required.
6. Figures to right indicate full marks.
7. Use of pocket calculator is allowed.
8. Use of probability table is allowed.

1. Safety practices in MNC'S are properly implemented as compared to Indian Construction companies. Explain various reasons for the same.  
You are responsible for implementing proper safety on your project site.  
What solutions do you suggest to the various reasons which you have identified ? Elaborate. 20
2. Explain the various methods adopted to measure the construction safety performance. What motivation needs to be given for improving site safety ?  
Detail out. What enforcement is necessary to have zero incidence rate ?  
Detail out. 20
3. Discuss various types of insurances available for construction workers safety.  
Who is responsible for the safety of workers legally ? The client contractor or sub-contractor ? Explain How compensation is decided in case of accident occurred on site during work hours ? 20
4. Explain the following. 20
  - i) Safety manual.
  - ii) Safety Audit.
  - iii) Safety measures for electrical works.
  - iv) HR aspects of safety enforcement, awareness.
  - v) Fire hazards prevention.

5. a) Explain the various safety aspects associated with handling of cranes during construction. 10
- b) Explain the safety measures considered during drilling and blasting operations. 10
6. Discuss hazards from and remedial measures for. 20
- i) Nuclear power plants.
- ii) Thermal power plants.
- iii) Coal mining operations.
- iv) Underwater construction.
7. Discuss Government of India's document on :
- a) National Safety Policy - Important directives. 10
- b) Elaborate requirements of OSHAS certification. 10

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