

- Q.24 Write a note on Caisson's Disease and describe safety provision to avoid it.
 - Q.25 Write a note on various PPEs recommended for Working at Heights.
 - Q.26 Write a note describing various methods of building demolition work.
 - Q.27 Write a note on safety provisions during demolition using JCB mounted concrete breaker.
 - Q.28 Write a note on Emergency Plan at a construction site.
 - Q.29 Write a note on handling and storage of explosives at construction site.
 - Q.30 Write a short note on Accident reporting, analysis & investigation at construction works at a construction site.
 - Q.31 Discuss about the significance Toolbox Talk for Construction Equipment's Operator.
 - Q.32 Describe various common hazards present at a construction site?

SECTION-D

Note: Long answer questions. Attempt any three questions out of four Questions. (3x10=30)

- Q.33 Write a note covering various safety provision to be considered for preparation of SOP for structural dismantling of an existing structure at a construction site.

Q.34 Write a note covering various safety provisions to be included during the preparation of inspection checklist for certifying the healthiness of a newly erected scaffold?

Q.35 What are the various types of hazards linked with Tower Crane operation for concreting works at construction sites? Describe the safety precautions to be taken during such works?

Q.36 Briefly narrate the major provisions of the building and other construction workers (Regulation of Employment and conditions of service)Act, 1996?

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SECTION-A

Note: Multiple type Questions. All Questions are compulsory. (10x1=10)

- Q.1 The IS standard for “Scaffolds & Ladders-Code of Safety” is

 - a) IS 3676
 - b) IS 3664
 - c) IS 3696
 - d) IS 3776

Q.2 A/An _____ is an important element of a PPE programme because it produces the information needed to select the appropriate PPE for any hazards present or likely to be present at particular workplaces.

 - a) Observation programme
 - b) Feedback mechanism
 - c) Training programme
 - d) Hazard assessment

Q.3 Safe working load of any cranes depends on _____.

 - a) Boom Length
 - b) Condition of ground
 - c) Inclination of boom to the vertical
 - d) All above

- Q.4 The type of water retaining structures to facilitate underground construction, which are temporary in nature does not becomes part of final structure is called
 a) Cofferdams b) Caisson
 c) Piling d) Pedestal
- Q.5 As per BOCW Central Rules, 1998, the employer shall ensure at a construction site of a building or other construction work that all portable electrical hand tools and inspection lamps used underground or in a confined space at an excavation or tunnelling work are operated at a voltage not exceeding _____ volts.
 a) 30 b) 24
 c) 20 d) 35
- Q.6 All unprotected edges at elevated platforms shall be provided with
 a) Hand rails b) Toe guard
 c) Anchorage point d) Both A & B
- Q.7 The use of prefabricated, protective structures such as trench boxes is known as
 a) Shoring b) Shielding
 c) Sloping d) Benching
- Q.8 The Height to Base Width ratio for ensuring independent scaffold stability is recommended as per IS code is
 a) 3:1 b) 4:1
 c) 5:1 d) 6:1
- Q.9 While providing ladder for exit from trench, the ladder should project at least _____ m from top level or excavated trench as per IS 3674?
 a) 2 b) 1
 c) 0.75 d) 1.75

- Q.10 The zone of demolition while dismantling of a building of height H should be atleast _____ as per BOCW Central Rules, 1998.
 a) $1.5 \times H$ b) $0.5 \times H$
 c) $2.5 \times H$ d) $3.5 \times H$

SECTION-B

- Note:** Very Short answer type questions. Attempt any ten questions out of twelve questions. (10x2=20)
- Q.11 What is the function of anemometer in ensuring safety during Crane operation?
- Q.12 What are the safety provisions related to entry and exit into an excavated pit?
- Q.13 Write a short note on personal fall protection systems.
- Q.14 Write a short note on Safety precautions during Piling works in construction.
- Q.15 Write a short note on Ladder Safety.
- Q.16 Write a short note on function of buffer stopper in EOT cranes.
- Q.17 Write short note on safety provision in High rise building construction for Fall protection.
- Q.18 What do you mean by Permit to work?
- Q.19 What do you mean Electrocution?
- Q.20 What do you mean by a Flame proof equipment?
- Q.21 What do you mean by Loss Time Accident?
- Q.22 Write a short note on Over Head powerlines related safety provisions at construction sites.

SECTION-C

- Note:** Short answer type Questions. Attempt any eight questions out of ten Questions. (8x5=40)
- Q.23 Prepare checklist for the safety inspection for mechanical excavation at construction site.