

- SECTION-D**
- Note:** Long answer type questions. Attempt any three questions out of four questions. (3x10=30)
- Q.33 Briefly describe the major provisions of the building and other construction workers (Regulation of Employment and Conditions of service) Act, 1996?
- Q.34 Write a note covering various safety provision to be considered for preparation of SOP for demolition of an existing building structure at construction site.
- Q.35 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.36 What are the various types of hazards linked with excavation? Describe the various protection methods used in excavation?

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a) Cofferdams b) Caisson
c) Piling d) Pedestal

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- 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 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) $3.5 \times H$
- Q.7 Methods of dust suppression system in construction site
- a) Proper house keeping
b) Benching
c) Water suppression
d) Both (a) and (c)
- Q.8 The following measures may be taken to ensure stability of scaffolding
- a) Diagonal Bracing
b) Horizontal and Vertical Lifelines
c) Tying of scaffolding with existing structure
d) Both (a) and (c)
e) All of the above
- Q.9 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.10 While climbing the ladder by workers, how many point-contacts will be required?

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- a) No point required b) Three point required
c) Two point required d) Four point required

SECTION-B

Note: Objective type questions. Attempt any ten questions out of twelve questions. (10x2=20)

- Q.11 What is the function of safe load indicator in cranes?
- Q.12 What are the safety provisions related to entry and exit into an excavated pit?
- Q.13 What do you mean by thorough check of lifting equipment/loose gears stipulated in BOCW Act, 1996? Also mention the periodicity for the same.
- Q.14 Write a short note on Piling works in construction.
- Q.15 Write a short note on Ladder Safety.
- Q.16 Write a short note on function of limit switch in hoist & lift.
- 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 Amputation?
- Q.20 What do you mean by a Flame proof equipment?
- Q.21 What do you mean by Root Cause analysis in Accident investigation?
- 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 of trench excavation.
- Q.24 Write a note on Inspection and testing of Tower crane.
- Q.25 Prepare checklist for safety in structural erection work.

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