

- Q.26 Write a note describing various methods of building demolition work.
- Q.27 Write a note on safety provisions during Piling works.
- Q.28 Write a note on fire safety provisions at construction site.
- Q.29 Write a note on handling and storage of explosives at construction site.
- Q.30 Write a short note on various steps involved in Accident investigation at a construction site.
- Q.31 Discuss about the significance Toolbox Talk for Construction Equipment's Operator.
- Q.32 Write a note on importance of good housekeeping at construction site and prepare inspection checklist for housekeeping.

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?

No. of Printed Pages : 4
Roll No.

RLI-095408 D

1st Year / Branch : One Year Post Diploma Course in Industrial Safety

Subject:- Safety in Construction Industries

Time : 3Hrs.

M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 The IS Standard for "Excavation Works-Code of safety" is
 a) IS 3576 b) IS 3764
 c) IS 3765 d) IS 3776
- Q.2 What is the main objective behind investigation of accidents
 a) To Prevent reoccurrence
 b) To find the cause
 c) To understand the unattended risks for the suggesting better controls
 d) All of the above
- Q.3 Which one of the following is not a hazard related to working at Height?
 a) Struck by falling bodies
 b) Fall from height
 c) Asphyxiation
 d) Working on fragile roof
- Q.4 The type of water retaining structures to facilitate underground construction, which are permanent in nature and 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 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?

- 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.