

B.Sc (F&S) Semester-4 Examination**CC****Safety Equipments & Documentation (N)****Time : 2-30 Hours]****April-2024****[Max. Marks : 70**

- Q 1(i) Name the various types of Work Equipment. What are important points to be ensured by an Employers / the self-employed before selection of work equipment. 7
- (ii) What is Declaration of Conformity? What are important information provided by Declaration of Conformity? Explain interpretation of CE marking. 7
- OR
- (i) What are the responsibilities of a Manufacturers under The Supply of Machinery (Safety) Regulations 1992? 7
- (ii) Write down important information and instructions pertaining to the complexity of the equipment and the specific risks associated with its use. 7
- Q 2(i) What are the important safe guards required for smooth operation of the Work Equipment? 7
- (ii) State various hazards from the misuse or poor maintenance of hand tools. 7
- OR
- (i) Write down various Hazards and control measures of mobile equipment. 7
- (ii) What are Non-mechanical hazards? Suggest their control measures. 7
- Q 3(i) What are the PPEs required for protection of a person against fall from height? 7
- (ii) What are respiratory equipment? Explain their selection criteria. 7
- OR
- (i) How respiratory protective equipment are classified? Explain Air-supplying respiratory protective equipment and their important classes. 7
- (ii) What are the various classes of Self-Contained Breathing Apparatus? Explain in brief. 7
- Q 4(i) Why permit system is required? Describe how a Work Permit System is set up in an industry? 7
- ii. What is HAZOP? Why is it useful for an industry? 7
- OR
- (i) Define Risk assessment? What are important practical steps those are needed to control the risks so that harm is unlikely? 7
- (ii) Why an "ON-SITE EMERGENCY PLAN" is required to prepare? Explain legal aspect of OSEP. 7

P.T.O

N210 - 2

Q 5 Attempt any seven out of twelve.

14

MCQ Tick marks the correct option:

1. White Finger dieses can be possible while using
 - a. Hammer
 - b. Chainsaw
 - c. Forklift
 - d. Pedestal drill
2. The primary purpose of the Supply of Machinery (Safety) Regulations 1992 is to :
 - a. Prevent barriers to trade across the EU (European Union),
 - b. Protect people at work.
 - c. Provide cheap machinery at reasonable cost
 - d. Prepare service and operation manual
3. Full form of "CE"
4. In the case of boilers and air receivers the inspection is covered by
 - a. PUWER 98
 - b. The Supply of Machinery (Safety) Regulations 1992
 - c. LOLER 98
 - d. The Pressure Systems Safety Regulations 2000
5. ROPS should be modified by the user to fit a canopy without consultation with the manufacturers. (True / False)
6. Electrical hand gloves are used to prevent Low voltage electric shocks up to:
 - a. 2000 V
 - b. 4000 V
 - c. 8000 V
 - d. 11000 V
7. Aluminised fabric gloves are used to prevent:
 - a. Chemical spurt
 - b. Ionising radiation
 - c. Excess Heat
 - d. Grease oil
8. Conductive footwear resistance should not exceed:
 - a. 150 kilo ohms
 - b. 250 kilo ohms
 - c. 350 kilo ohms
 - d. 450 kilo ohms
9. Air supplied should be at least to enter into the face-piece of continuous flow type air respirator:
 - a. 100 litres of air per minute
 - b. 110 litres of air per minute
 - c. 120 litres of air per minute
 - d. 130 litres of air per minute

N210 - 3

10. For carrying out work near radioactive material, which permit is required:
 - a. Entry Permit
 - b. Unique Permit
 - c. Hot work permit
 - d. General Permit
11. The key words in worker involvement are:
 - a. Trust
 - b. Respect
 - c. Co-operation
 - d. All the above
12. The goal of ----- to ensure a safe and healthy workplace by striving to eliminate unsafe practices and hazards that lead to injuries and accidents.
 - a. Permit System
 - b. Risk Assessment
 - c. Safety Audit
 - d. OSEP

—X—