Candidate's Seat No	•
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B.Sc (Sem-4) (F&S) Examination

CC

Safety Equipments & Docu (New)

Time: 2-00 Hours]

April 2022

[Max. Marks: 50

Instruction:

All questions in section-I carry equal marks. Attempt any three questions in section-1.

Question in section-II is compulsory.

Section-I

Question-1

Question-2

Question-3

Question-4

A. Describe the importance of "Declaration of Conformity and CE Marking". Discuss 7 relevant information provided by these documents.

- B. What are the important checkpoints under the 'supply' law those are required to 7 check by the manufacturer to ensure that the machine is safe before it is sold out?
- A. Describe "Maintenance Management Scheme" with numbers of techniques to 7
- **B.** Describe briefly how the information, instruction and training part is fulfilled for the 7
- A. Describe in detail the functions, importance and mandatory requirement for ROP 7
- B. Describe various non-mechanical machinery hazards. State important control 7
- A. What are the important safe guards required for smooth operation of the Work 7
- B. Describe important hazards and control measures related to Chainsaw? 7
- A. Explain Air-supplying respiratory protective equipment and their classification. 7
- B. Give short note on training, maintenance, precaution and care of PPE. 7

Question-5 Question-6

- A. What are respiratory hazards? How respiratory equipment are selected and 7 classified on the basis of types of hazards?
- B. What are detection instruments? Explain their classification. Write down those 7 atmospheric conditions where these instruments are used.
- A. What is HAZOP? Describe the procedure of HAZOP with merit and demerit. 7
- B. What are hazard identification techniques? Describe the Classification of hazard 7 identification techniques on the basis of area in which they are predominantly

A. Describe how a Work Permit System is set up in an industry?

7

B. Describe responsibilities of Site Controller and Incident controller during 7 emergency.

Section-II

Question-9

MCQTick marks the correct option:

- 8
- (i) 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
- (ii) Overheated bearing is detected during monitoring, it will be attended during:
 - a. Preventive maintenance
 - b. Condition based maintenance
 - c. Breakdown based maintenance
 - d. Anytime
- (iii) Musculoskeletal disorders belong to:
 - a. Mechanical hazard
 - b. Non-mechanical hazard
 - c. Physiological hazard
 - d. Psycho-physiological hazard
- (iv) The hazard which is developed due to the rotating drive belt and pulley is an example of:
 - a. Entanglement
 - b. Drawing in
 - c. Crushing
 - d. Puncture
- (v) There is possibility of fire when operated:
 - a. Chainsaw
 - b. Bench-mounted circular saw
 - c. Conveyor System
 - d. Pedestal drill
- (vi) Safeguards are mandatory to prevent access to dangerous parts of machinery under:
 - a. PUWER 98
 - b. The Supply of Machinery (Safety) Regulations 1992
 - c. LOLER 98
 - d. The Pressure Systems Safety Regulations 2000

- (vii) For carrying out work near radioactive material, which permit is required:
 - Entry Permit a.
 - Unique Permit b.
 - Hot work permit c.
 - d. General Permit
- (viii) Record of significant finding during risk assessment is not necessary:
 - If Internal assessment is carried out
 - If nos. of employee <5 b.
 - Against statutory non-compliance c.
 - As per Instruction of Unit head d.