

- Q.28 Explain the effects of toxic chemicals on human body?
- Q.29 Discuss the different provisions to be provided for protection of body during industrial work in brief?
- Q.30 Discuss the need and importance of plant safety in brief?
- Q.31 Explain breathing apparatus used for protection of lungs and respiratory tract in the brief?
- Q.32 What is difference between threshold limit value and short term exposure limit?
- Q.33 Discuss the different equipments used in the industry for protection of foot and leg in brief?
- Q.34 Describe the procedure for registration of boiler under Indian boilers Act, 1923 in brief?
- Q.35 Explain the various causes of accidents due to unsafe conditions in brief?

SECTION-D

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)
- Q.36 Discuss the different types of hazards caused by unfired and fired pressure vessels along with the safety measures adopted in industries to check these hazards?
- Q.37 Describe the different health and safety provisions of Factories Act 1948 in detail?
- Q.38 What are fire extinguishers? Discuss the different types of fire extinguishers in detail?

No. of Printed Pages : 4

180555/120555

Roll No.

5th Sem / Chem Subject:- Plant Safety

Time : 3Hrs.

M.M. : 100

SECTION-A

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

- Q.1 Which of the following violations are most commonly cited by OSHA?
- hazard communications
 - scaffolding
 - respiratory protection
 - fall protection
- Q.2 If you wanted to convey the best practices rather than potential injury, which word would you use?
- warning
 - notice
 - danger
 - caution
- Q.3 Which of the following is used as personal protective equipment for head?
- sleeves
 - helmets
 - cuff
 - all of these
- Q.4 Safety is the freedom from?
- tension
 - anxiety
 - risk
 - depression
- Q.5 How often should ladder be inspected?
- before each use
 - once a week
 - once a month
 - every 6 months

- Q.6 On which of the following types of surfaces should a Class A fire extinguisher not be used?
 a) cloth b) wood
 c) paper d) electrical equipment
- Q.7 OSHA requires that electric tools should?
 a) have three wire cord
 b) be double insulated
 c) be powered by low voltage transformer
 d) all of these
- Q.8 The selection of a particular respiratory protective device depends upon?
 a) nature of the hazard b) severity of the hazard
 c) type of contaminants d) all of these
- Q.9 The most dangerous place to use electrical equipment is ?
 a) near a ladder
 b) outdoors
 c) near water
 d) near other electrical equipment
- Q.10 Which of the following is a type of apron provides protection against radiation?
 a) lead rubber apron b) iron rubber apron
 c) copper rubber apron d) nickel rubber apron

SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 What is Class C fire?
- Q.12 Write the name of a protective equipment to be used for protection of lower part of the forearm?
- Q.13 Write any one unit for measuring concentration of toxic materials?

(2)

180555/120555

- Q.14 Write the name of the class to which fire caused by plastics is grouped?
- Q.15 Write the name of any one health hazard caused by radiation?
- Q.16 Define the accident?
- Q.17 Write the full form of HARA?
- Q.18 Write the name of industrial act related to safety for working on boilers?
- Q.19 Define floor area ratio?
- Q.20 Write the name of the category to which following caused of industrial accident can be grouped: Working on improperly guarded machines?

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 How will you classify the toxic chemicals on the basis of their effects on humans? Discuss each one of them in brief?
- Q.22 How will you classify the fire into different categories? Discuss each one of them in brief?
- Q.23 Discuss different elements of process safety management in brief?
- Q.24 Define and discuss the fire tetrahedron in brief?
- Q.25 Explain the fire towers in brief?
- Q.26 Describe the functions of central boiler board?
- Q.27 Discuss the different types of effects caused by excessive heat and temperature on human body in brief?

(3)

180555/120555