

- 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?

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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?

 - a) hazard communications
 - b) scaffolding
 - c) respiratory protection
 - d) fall protection

Q.2 If you wanted to convey the best practices rather than potential injury, which word would you use?

 - a) warning
 - b) notice
 - c) danger
 - d) caution

Q.3 Which of the following is used as personal protective equipment for head?

 - a) sleeves
 - b) helmets
 - c) cuff
 - d) all of these

Q.4 Safety is the freedom from?

 - a) tension
 - b) anxiety
 - c) risk
 - d) depression

Q.5 How often should ladder be inspected?

 - a) before each use
 - b) once a week
 - c) once a month
 - d) 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?

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- 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?

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