

- Q.29 Define and discuss threshold limit value in brief.
- Q.30 Describe the main provisions of Indian Boilers Act, 1923 in brief?
- Q.31 What is difference between fire escapes and fire exists.
- Q.32 Explain preventive measures to be adopted by industries to reduce the impact of excessive heat and temperature on human body?
- Q.33 Describe the general measures to be adopted in a chemical plant for prevention and control of diseases due to chemicals?
- Q.34 Discuss the industrial accidents and their causes in brief?
- Q.35 Discuss cleanliness and disposal of wastes & effluents provision of factories Act 1948?

SECTION-D

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)
- Q.36 Describe the purpose and main provisions & important associated sections of Indian Boilers Act, 1923 in detail?
- Q.37 What is process safety management? Describe different elements of process safety management in detail.
- Q.38 Discuss the different types of effects control measures to be adopted by industries to contain problems of hazardous substances?

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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 Industrial safety management is concerned with?
a) Reducing hazards b) eliminating hazards
c) controlling hazards d) all of these
- Q.2 On which of the following types of surfaces should be Class B fire extinguisher not be used?
a) paint b) grease
c) oil d) plastic
- Q.3 Which of the following is not used as personal protective equipment for finger, hand and arm?
a) cotton b) mitten
c) sleeve d) cuff
- Q.4 What is the leading cause of death on construction sites?
a) Struck by object
b) falls
c) caught-in or -between
d) electrocutions
- Q.5 If you wanted to convey the most severe type of hazard, which word would you use?

- a) Warning b) notice
c) danger d) caution
- Q.6 How many points of contact should you maintain with a ladder at all times?
a) at least two b) at least three
c) one d) four
- Q.7 Which of the following is not a chemical-related health hazard?
a) Carcinogenicity b) reactivity
c) corrosivity d) toxicity
- Q.8 Cuffs are used during industrial work for protection of?
a) arm b) head
c) eye d) ear
- Q.9 One should wear eye, head, and face protection if working with which of the following tools?
a) Portable abrasive wheel tools
b) electric tools
c) pneumatic tools
d) liquid fuel tools
- Q.10 Which class of fire extinguishers should you use on electrically energized fires?
a) Class A b) Class B
c) Class C d) Class D

SECTION-B

- Note:** Objective type questions. All questions are compulsory. (10x1=10)
- Q.11 Write name of one harmful effect caused on human body by mercury and its compounds?

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- Q.12 Define the toxicity?
- Q.13 Write full form of PPE?
- Q.14 Write the name of a protective equipment to be used for protection of lungs?
- Q.15 Define floor area ratio?
- Q.16 Write the name of a protective equipment to be used for protection of head?
- Q.17 What is cuff guard?
- Q.18 Write name of the class/classes of fire, which can be extinguished by using water type fire extinguisher?
- Q.19 What is Class B fire?
- Q.20 Define travel distance?

SECTION-C

- Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)
- Q.21 Discuss the different causes of accidents due to unsafe acts in brief?
- Q.22 Discuss the fire triangle in brief with the help of neat diagram?
- Q.23 Explain in brief about multiple causes of accidents?
- Q.24 Discuss the health hazards due to radiations?
- Q.25 Discuss the important points to improve plant safety in brief?
- Q.26 Explain the planning for emergencies to be done by industries in brief?
- Q.27 Discuss the need and importance of occupational safety and health administration?
- Q.28 Discuss different safety provisions for pressure vessels in brief?

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