

- Q.25 Explain industrial safety management.
 Q.26 Write the various causes of accidents?
 Q.27 Explain maximum allowable concentration?
 Q.28 List some standard test related to effluent treatment.
 Q.29 Describe the general measure to be adopted in a chemical plant for prevention & control at disease due to chemicals.
 Q.30 Write down the different preventive techniques for air pollution?
 Q.31 Explain about the fire triangle?
 Q.32 Write some major points for the renewal or boiler certificate.
 Q.33 Explain the term T.L.V.
 Q.34 Explain the term ceiling value & units of concentration.
 Q.35 Discuss about various type fire extinguisher.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Define an accident. Discuss the various causes of accidents. Briefly state the various observation of safety specialists regarding the accidents.
 Q.37 Write short note on two of the following
 a) Personal protective equipment
 b) Respirations
 Q.38 What are the ill-effects of hazardous substances? Also comment to certain the problems of hazardous substances in chemical industries.

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5th Sem / Branch : Chemical Engg.

Sub. : Plant Safety

Time : 3Hrs.

M.M. : 100

SECTION-A

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

- Q.1 Which class of fires are caused by flammable liquids such as petrol, tar, paint?
 a) Class A fire b) Class C fire
 c) Class G fire d) Class B fire
 Q.2 What is the Role of Class A Fire Extinguisher?
 a) Used an ordinary combustible such as wood & PAPER
 b) Used an flammable liquids
 c) Used an electrically energized fire
 d) Used an nonflammable metal
 Q.3 What is the color for portable water type fire extinguisher?
 a) Emerald green b) Pale cream
 c) Signal red d) French blue
 Q.4 The only thing that can keep you safe consistently is _____.
 a) Personal protective equipment
 b) Your supervisor

- c) Obeying all warning signs
 - d) Your attitude
- Q.5 Whenever a leakage (Whatever leakage) is noticed rectify it immediately to avoid_____?
- a) High Voltage b) Fire hazard
 - c) Low voltage d) Flux
- Q.6 Which statement is INCORRECT about water extinguishers?
- a) Combustible metal
 - b) Extinguishes the fire by taking heat element of fire triangle
 - c) Flammable liquids & gases
 - d) Extinguishes the fire by taking oxygen element of the fire triangle
- Q.7 Which type of flowing is not the cause of electric fire?
- a) Open doors b) Electric shock circuit
 - c) Loose connection d) Over loading on wires
- Q.8 Water is used to extinguish?
- a) Class C Fires b) Class B Fires
 - c) Class A fires d) All of the above
- Q.9 Once is how many years the refilling should done in water type extinguisher?
- a) 2 years b) 5 years
 - c) 3 years d) 4 years
- Q.10 What is the full form of HVWSS?
- a) High velocity water spray system

- b) High vital water spray system
- c) High velocity water suction system
- d) High versatile water suction system

SECTION-B

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

- Q.11 Write the full form of HARA.
- Q.12 Name a protective equipment to be used for protection of head.
- Q.13 Name any one health hazard caused by radiation.
- Q.14 Why we use extinguisher fires?
- Q.15 What is breathing apparatus?
- Q.16 Expand the term T.L. V.
- Q.17 What are the sanitizers?
- Q.18 Write the PH of alkali solution.
- Q.19 What is foot guard?
- Q.20 Define accidents.

SECTION-C

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

- Q.21 Describe the main provision of India boilers Act. 1923 in brief.
- Q.22 Discuss two safety provision for pressure vessel in brief.
- Q.23 How will classify the fire into different catagories? Discuss each one of them in brief?
- Q.24 Discuss the need & important of occupational safety & health administration?