

- Q.27 Define accident and Describe unsafe conditions which are responsible for accident.
 Q.28 What are the multiple causes for an accident describe in brief.
 Q.29 Write about preventive measures for radiation hazards.
 Q.30 Define maximum allowable concentration and threshold limit value also write their units
 Q.31 Write a short note on planning for emergencies
 Q.32 Discuss about floor area ratio and ceiling value.
 Q.33 Discuss the adverse effect of dust on human breathing system
 Q.34 Write some major points for the renewal of boiler certificate.
 Q.35 Explain about the Fire Tetrahedron

SECTION-D

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)
 Q.36 Discuss the main provision of Indian boiler act 1923.
 Q.37 What is process safety management explain the various elements of process safety management in detail.
 Q.38 Discuss the different types of effect caused by excessive heat and temperature on human body along with the preventive measures to be adopted by industries to reduce the impact of these effects.

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Chemical Subject:- Plant Safety

Time : 3Hrs. M.M. : 100

SECTION-A

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

- Q.1 Eye protection is require for which of following hazards
 a) Flying particles b) Chemical gases
 c) All of these d) None
 Q.2 Class A materials do not include which of the following
 a) Wood Materials b) Propane Materials
 c) Plastic Material d) Paper Materials
 Q.3 Water fire extinguisher is used for
 a) Only class A type fire
 b) Only class B type fire
 c) Class A & B type fire
 d) None of above
 Q.4 Devices which are used for extinguish fire is known as
 a) Fire alarm b) Fire fighters
 c) Fire extinguisher d) All of above

- Q.5 Class A fire involves fire of
 a) Combustible materials
 b) Flammable liquids & gases
 c) Electronic & Electric equipment's
 d) All of these
- Q.6 Which of following is not a element of fire triangle
 a) Source of ignition b) Oxidizer
 c) Fuel d) Chain reaction
- Q.7 Factory is a premises which include?
 a) Ten or more than ten workers with use of power
 b) Twenty or more than twenty workers without power
 c) Both A & B
 d) Neither A nor B
- Q.8 Fencing of machinery is a _____ Provisions under Factory act
 a) Health b) Safety
 c) Security d) All of these
- Q.9 Indian boiler act is administrated by ?
 a) State government b) Center government
 c) Central boiler board d) State boiler board
- Q.10 Safety officer in an factory is required when factory has_____?
 a) More than 500 employees
 b) Less than 500 employees
 c) More than 1000 employees
 d) Less than 1000 employees

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SECTION-B

- Note:** Objective type questions. All questions are compulsory. (10x1=10)
- Q.11 Name a protective equipment to be used for protection of Eyes.
- Q.12 Write full form of HARA
- Q.13 Name one health hazard caused by radiation
- Q.14 What is the full form of TLV
- Q.15 Acid Ph range is _____
- Q.16 Write the full form of PSM
- Q.17 Write any one chemical compound which are responsible for respiratory diseases.
- Q.18 What are the use of sanitizers
- Q.19 Name three elements of fire triangle
- Q.20 Name any two Hazards which may be in chemical industry.

SECTION-C

- Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)
- Q.21 Discuss the different equipment's used in industry for protection of foot and leg in brief.
- Q.22 Discuss the need and importance of OSHA
- Q.23 How will you classify the fire into different categories discuss each one of them in brief.
- Q.24 Explain the effect of toxic Chemicals on human body
- Q.25 Discuss briefly the water and soil pollution caused by industries
- Q.26 Define hazard and explain fire Hazard in brief.

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