

- Q.32 Explain in brief various types of classes of fire.
- Q.33 Explain briefly the various types of diseases caused by different type of dust.
- Q.34 Differentiate between environmental pollution and environmental degradation.
- Q.35 Discuss the need and importance of occupational safety and health administration.

#### **Section-D**

- Note:** Long answer questions. Attempt any two question out of three Questions. (2x10=20)
- Q.36 What is process safety management? Describe different elements of process safety management in detail.
- Q.37 What are personnel protective equipments? Describe the various personal protective equipments in detail.
- Q.38 Write short note on any two of following:
- a) Maximum allowable concentration
  - b) Urinals and spittoons in industry.
  - c) Function of central boilers
  - d) Avoidance of overcrowding

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180555/120555

**5th Sem., / Chem  
Subject : Plant Safety**

Time : 3 Hrs.

M.M. : 100

#### **SECTION-A**

**Note: Multiple type Questions. All Questions are compulsory. (10x1=10)**

- Q.1 The following class of fire occur is electrical equipment.
- a) Class A
  - b) Class B
  - c) Class C
  - d) Class D
- Q.2 Decibel (dB) is a unit used to measure
- a) Sound
  - b) Light
  - c) Frequency
  - d) None of these
- Q.3 Full form of TLV is
- a) Time limit value
  - b) Threshold limit value
  - c) Threshold large value
  - d) Threshold least value
- Q.4 Example of "Class B" fuel is
- a) Cardboard
  - b) Lamp
  - c) Paint thinner
  - d) None of the above
- Q.5 Full form of PSM is
- a) Process safety management
  - b) Process slow management
  - c) Programme safe management
  - d) Procedure safety management

- Q.6 Safety belt is worn to prevent injury from  
a) Fire b) Cut injury  
c) Falling from height d) Excessive noise

Q.7 Heavy metals like arsenic effects  
a) Immune system b) Skin  
c) Respiratory system d) Nervous system

Q.8 OSHA was created to  
a) To reduce hazards b) Data analysis  
c) EIA analysis d) Ecological development

Q.9 Which section of CWA regulates land disposal of sludge?  
a) Section 402 b) Section 403  
c) Section 404 d) Section 405

Q.10 Full form of JSA is  
a) Job safety analysis  
b) Job safety account  
c) Job safety accountability  
d) Job site analysis

## **Section-B**

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

- Q.11 Define unsafe condition.
  - Q.12 Write full form of OSHA.
  - Q.13 Define fire triangle.
  - Q.14 Define short term exposure limit.

- Q.15 Name any two types of fire extinguishers.

Q.16 What is the purpose of Indian boiler Act 1923?

Q.17 What is the greatest source of radiation?

Q.18 Expand "C.O.D.".

Q.19 Write full form of "M.A.C.".

Q.20 Name body by mercury and its compounds.

## **Section-C**

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

- Q.21 Explain the term fire escapes and floor area ratio in reference to fire hazard.
  - Q.22 Explain the various causes of accidents in the industry work place.
  - Q.23 Discuss the effect of toxic chemicals on human system.
  - Q.24 Discuss about health due to defective illumination.
  - Q.25 Explain in brief about the breathing apparatus used for protection of lungs and respiratory tract.
  - Q.26 Write short note on threshold limit value.
  - Q.27 Discuss any five health and safety provision of factories Act 1948.
  - Q.28 Discuss briefly the water pollution caused by industries.
  - Q.29 Explain the brief about Indian Boiler Act 1923.
  - Q.30 Discuss the role of cleanliness and disposal of waste in relation to safety.
  - Q.31 Explain in brief the preventive techniques used in industries to control air pollution.