

- Q.27 discuss briefly about the function of safety department in chemical department.

Q.28 Discuss the various safety provision at the factories ACT, 1948.

Q.29 Explain the general measure which are adopted for the prevention & control occupational diseases due to chemicals.

Q.30 Discuss about various type of fire extinguishers.

Q.31 Explain the toxic chemicals on human body.

Q.32 Discuss the fire triangle in brief with the help of neat diagram.

Q.33 Discuss the different equipment used in the industry for protection of foot & leg in brief.

Q.34 Explain the breathing apparatus used for protection of lungs & respiratory tract in brief.

Q.35 Discuss the health hazard due to radiation.

SECTION-D

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

- Q.36 What is process safety management? Describe different element of process safety management in detail.

Q.37 Describe the different health & safety provision of factories in detail.

Q.38 Explain the following in detail

 - a) Types of fire extinguishers
 - b) Industrial accidents & their causes

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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 The example of physical hazard is ____.

 - a) Toxic
 - b) Virus
 - c) Vibration
 - d) All of the above

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 Which color band denote the co₂ content in the fire extinguisher?

 - a) Red
 - b) Black
 - c) White
 - d) Blue

Q.4 Which type of fire extinguisher must not be used in case of electrical base fire?

 - a) Halon extinguisher
 - b) Carbon chloride extinguisher
 - c) Foam extinguisher
 - d) Dry power extinguisher

- Q.5** Which class of fire involves an electrical equipment?
 a) Class A b) Class D
 c) Class B d) Class C
- Q.6** Which type of fire extinguisher is used for fire due to liquids?
 a) Class B b) Class A
 c) Class D d) Class C
- Q.7** Safety officer in a factory is required when factory has?
 a) More than 500 employees
 b) Less than 500 employees
 c) More than 100 employees
 d) Less than 1000 employees
- Q.8** Class A materials do not include which of the following
 a) Wood material b) Plastic Material
 c) Paper Material d) Propane material
- Q.9** _____ is best suited to extinguishing oil or flammable liquid fire?
 a) Soda Acid b) Foam
 c) Vaporizing liquid d) Dry Chemical
- 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

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SECTION-B

Note: Objective type questions. All questions are compulsory. $(10 \times 1 = 10)$

- Q.11 Expand the term “PPE”.
- Q.12 Define hazard.
- Q.13 Name a protective equipment to be used for protection of lower part of the forearm.
- Q.14 Tetanus disease is associated with _____.
- Q.15 Acid PH range is _____.
- Q.16 Foam type fire extinguisher are used in which type of fire?
- Q.17 What is class C fire?
- Q.18 Write unsafe act.
- Q.19 Write the full form of TDS.
- Q.20 Name the class of fire, which can be extinguished by using water type fire extinguisher.

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. $(12 \times 5 = 60)$

- Q.21 Discuss in brief the water & soil pollution caused by industries.
- Q.22 What are the main causes of occupational dermatoses?
- Q.23 Discuss about health hazard due to defective illumination.
- Q.24 Explain the various color schemes &safety color codes which are prevalent in industries.
- Q.25 Discuss about floor area ratio.
- Q.26 Write short note on industrial toxicology.

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