

- Q.20 What is the role of personal protective equipment in accident prevention?
- Q.21 Describe Boiling Liquid Expanding Vapor Explosion (BLEVE).
- Q.22 Write short notes on Material Safety Data Sheets (MSDS).

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

- Q.23 Explain the concept of the fire triangle with its neat sketch and its relevance in fire prevention.
- Q.24 Analyze the potential hazards associated with the storage and transportation of chemicals, particularly explosives and flammable substances, in the chemical industry.
- Q.25 Write short note on any two of the following:
- a) Flammable Substances
 - b) Accident and Safety
 - c) Fire extinguishers
 - d) Hazards prevention Techniques

No. of Printed Pages : 4
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220664C

6th Sem / Chemical Engg. (Pulp & Paper) Subject:- Industrial Hazards and Safety

Time : 3Hrs.

M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory (6x1=6)

- Q.1 Which of the following is NOT a component of the "fire triangle"?
- a) Fuel
 - b) Oxygen
 - c) Heat
 - d) Water
- Q.2 What does the (TLV)
- a) Transfer logic Value
 - b) Threshold limit value
 - c) Threshold logic Value
 - d) Transfer limit Value
- Q.3 Which of the following is an example of a statutory requirement for safety norms in industries?
- a) Company dress code
 - b) Employee birthday celebrations.

- c) Regular safety audits and inspections.
d) Daily coffee breaks

Q.4 What do we do after an accident?

a) Ignore it b) Help the person
c) Run away d) Hide

Q.5 What helps stop a fire?

a) A fan b) A fire extinguisher
c) A pillow d) A blanket

Q.6 Which of the following is a key aspect of precautions and promotion of safety practices?

a) Regular safety meetings and training.
b) Ignoring minor incidents.
c) Prioritizing production over safety.
d) Blaming workers for accidents.

SECTION-B

Note: Objective/Completion type questions. All questions are compulsory. (6x1=6)

- Q.7 Define "Safety" and give one example.
 - Q.8 Name two types of fire extinguishers.
 - Q.9 What do you mean by Fire Triangle

- Q.10 Write any one importance of "Safety audits" in industries?

Q.11 Expand PPE

Q.12 What do you understand by Toxicology?

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

Q.13 What do you mean by safety and explain the importance of safety in the chemical process industry.

Q.14 Explain the concept of dose and response in toxicology.

Q.15 Describe the steps to be taken immediately after an industrial accident.

Q.16 Explain the characteristics of flammable and inflammable liquids.

Q.17 What are the safety precautions while receiving and storing chemicals?

Q.18 Classify different types of hazards in a chemical process industry.

Q.19 Describe the symptoms caused by chemical exposure and their remedial actions.