

- Q.24 Differentiate between Onsite and Offsite Emergency Plan.
- Q.25 Explain the various factors affecting thermal comfort.
- Q.26 Explain principles of good illumination for ensuring safety at workplaces.
- Q.27 Explain the working of a "Cyclone separator".
- Q.28 What is Glare? Explain the undesirable effect of glare and its control measures.
- Q.29 Explain the engineering control measure to mitigate and control noise.
- Q.30 Explain the Raynaud's Syndrome.
- Q.31 Explain dilution ventilation system along with example.
- Q.32 Write a note on classification of fires.

SECTION-D

Note: Long answer type questions. Attempt any three questions out of four questions. (3x10=30)

- Q.33 Write a note on various important factors to be considered during plant Layout for ensuring Industrial Safety.
- Q.34 Explain BLEVE in detail with examples.
- Q.35 Write a note explain various electrical safety devices used for earth fault protection in electrical circuits along with their working principle.
- Q.36 Write a note on various types of fire extinguishers along with their applications.

No. of Printed Pages : 4
Roll No.

RLI-095403

1st Year / One Year Post Diploma Course In Industrial Safety Subject:- Safety Engineering - II

Time : 3Hrs.

M.M. : 100

SECTION-A

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

- Q.1 The _____ is the lowest temperature at which a liquid gives off enough vapor to form an ignitable mixture.
- Melting point
 - Boiling point
 - Flash point
 - None of the above
- Q.2 Particulate matter includes dusts, fumes, smoke, and mists that are suspended in the air. This suspension is generally known as an _____.
- Particulate suspension
 - Aerosol
 - Mist
 - Smoke
- Q.3 Oxygen levels are maintained between _____ and _____ by volume; and ventilation is typically used to maintain permissible oxygen concentration
- 20.5% and 22.5%
 - 19.5% and 22%
 - 30.5% and 32.5%
 - None of the above
- Q.4 Which of the following is standard deals with "Industrial Plant Layout-Code of safe Practice"

- a) IS 8091 b) IS 1893
c) IS 9081 d) None of the above
- Q.5** The provisions related to Lighting and Ventilation as per The Factory Act, 1948 are given under Chapter dealing with
a) Safety b) Health
c) Welfare d) None of the above
- Q.6** The noise level measure widely used to evaluate occupational exposure because of its good correlation with hearing damage;
a) A-weighted level"and expressed as dB(A)
b) C-weighted level" and expressed as dB(C)
c) B-weighted level and expressed as dB(B)
d) All of the above
- Q.7** The reciprocal of Time period (T), $1/T$, is the _____ of the waveform;
a) Frequency b) Wavelength
c) Velocity d) None of the above
- Q.8** Which of the following is not part of "Fire Tetrahedron" Model?
a) Fuel b) Oxygen
c) Water d) Heat
- Q.9** Which Class of Fire involves flammable gases?
a) Class A b) Class B
c) Class C d) Class D
- Q.10** Trip hazards are caused by _____.
a) Obstructions on the floor
b) Cables across walkways
c) Poor lighting levels
d) All of the above

SECTION-B

- Note:** Objective type questions. Attempt any ten questions out of twelve questions. $(10 \times 2 = 20)$
- Q.11** Explain the importance of good lighting in an industrial workplace.
Q.12 Specify the importance of Earthing while using electrical power.
Q.13 Explain the term "Fire tetrahedron".
Q.14 Give the importance of Fabric filter in the ventilation system.
Q.15 Write a note on ill-effect of excessive vibration on worker.
Q.16 Write a note on control of hazards due to static electricity.
Q.17 Explain importance of housekeeping in ensuring safety at workplaces.
Q.18 Explain Heat exhaustion.
Q.19 Write a note on vibration isolation technique, in case of large vibrating equipment?
Q.20 Explain the importance of escape route during Industrial Emergencies.
Q.21 What is flame proof electrical equipment?
Q.22 Explain the working of ESP in a thermal power plant.

SECTION-C

- Note:** Short answer type questions. Attempt any eight questions out of ten questions. $(8 \times 5 = 40)$
- Q.23** Write a note on importance of good housekeeping in Safety. List out major points to be included in housekeeping inspection checklist at workplaces.