

List out major points to be included in housekeeping inspection checklist at workplace.

- Q.24 Write a short note on Onsite and offsite Emergency Plan.
- Q.25 Explain heat stress and heat strain.
- Q.26 Explain the Raynaud's Syndrome.
- Q.27 Explain the factors affecting industrial lighting.
- Q.28 Explain Local Exhaust Ventilation system along with example.
- Q.29 Write a note on classification of fires.
- Q.30 Explain unconfined vapour cloud explosion.
- Q.31 Explain the engineering control measure to mitigate and control noise.
- Q.32 Explain the safety precautions to be taken while working with electrical circuits.

SECTION-D

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

- Q.33 Write a note on various important factors to be considered during Plant Layout for ensuring Industrial Safety.
- Q.34 Write a note explain various electrical safety devices used for earth fault protection in electrical circuits along with their working principle.
- Q.35 Explain the different sources of artificial light and their importance in industrial safety.
- Q.36 Explain in detail the causes of fire and mitigation measure in an industrial set up.

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1st Year / Industrial Safety Sub.: Safety Engineering-II

Time : 3 Hrs.

M.M. : 100

SECTION-A

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

- Q.1 Fires may be started by electricity in several ways. The main cause/s are.
 - a) Overheating of cables and electrical equipment due to overloading of conductors;
 - b) Leakage currents due to poor or inadequate insulation;
 - c) The ignition of flammable materials by arcing or sparking of electrical equipment, including the scattering of hot particles from electrical equipment.
 - d) Both A & B
 - e) All the above
- Q.2 'Speed removal of scrap, waste, debris & unused materials at regular intervals' is the part of _____.
 - a) Construction Process
 - b) Good Housekeeping
 - c) Trenching
 - d) Material Management

- Q.3 Which Zone as per hazardous zone classification is considered as most hazardous due to continuous presence of flammable vapours/gases?
- a) Zone-O b) Zone-1
c) Zone-2 d) Zone-3
- Q.4 Oxygen levels are maintained between _____ and _____ by volume; and ventilation is typically used to maintain permissible oxygen concentration.
- a) 20.5% and 22.5% b) 19.5% and 22%
c) 30.5% and 32.5% d) None of the above
- Q.5 Which of the following is standard deals with “Code of Practice for Industrial lighting”
- a) IS 5566 b) IS6665
c) 1S 5656 d) None of the above
- Q.6 The noise level in excess of _____ dB (A) is not permissible as per the Factory Rules, 1952 As Applicable in The State of Haryana.
- a) 115 b) 90
c) 85 d) 80
- Q.7 The reciprocal of frequency (f), $1/f$, is the _____ of the wave form;
- a) Time Period b) Wavelength
c) Velocity d) None of the above
- Q.8 Which of the following is/are part of “Fire Tetrahedron” Model?
- a) Fuel b) Oxygen
c) Chain reaction d) All of the above

- Q.9 Which class of Fire involves flammable liquids?
- a) Class A b) Class B
c) Class C d) Class D
- Q.10 The minimum acoustic pressure audible to the young human ear is approximately _____.
- a) 20×10^{-6} Pa b) 20×10^{-5} Pa
c) 20×10^{-4} Pa d) 20×10^{-2} Pa

SECTION-B

Note: Very short answer type Questions. Attempt any ten questions out of twelve Questions. (10x2=20)

- Q.11 What is “Stroboscopic Effect”?
- Q.12 Specify the importance of Earthing while using electrical power.
- Q.13 Explain the elements of “Fire tetrahedron” Model.
- Q.14 Explain the importance of good ventilation system at workplace.
- Q.15 Explain in short which instruments are used to measure noise in an industrial work place.
- 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 What do you mean by term Electrocution?
- Q.19 Explain in short the different types of ventilation system.
- Q.20 Write a short note on First Aid measures in case of electrical shock?
- Q.21 What are flame proof electrical equipment?
- Q.22 Write a note on Colour rendering index.

SECTION-C

Note: Short answer type Questions. Attempt any eight questions out of ten Questions. (8x5=40)

- Q.23 Write a note on Safety and good house-keeping or “5S”.