

- Q.24 CO poisoning
- Q.25 Ionizing radiation-hazards and control measures
- Q.26 Heat stress and its control
- Q.27 Role and function of factory medical officer in industry
- Q.28 Heat exhaustion
- Q.29 Routes of entry of chemicals
- Q.30 Importance of ergonomics
- Q.31 Carpal tunnel syndrome
- Q.32 Dermatitis

#### SECTION-D

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

- Q.33 Explain Classification of respiratory personal protective devices.
- Q.34 Explain the effect the noise on man, measurement and evaluation of noise, vibration damping, noise isolation, noise absorption?
- Q.35 What is medical surveillance? What is the significance of pre and post medical examination in industry.
- Q.36 Describe Air Sampling, Personal Monitoring, Risk Management at work places, and the concept of Threshold Limits.

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### 1st Year / One Year Post Diploma in Industrial Safety Subject:- Industrial Hygiene Occupational Health

Time : 3Hrs.

M.M. : 100

#### SECTION-A

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

- Q.1 What part of the body is most sensitive to the effects of ionizing radiation?
  - a) Nerve
  - b) Blood
  - c) Bone
  - d) All of the above
- Q.2 Industrial hygienist used following terms to describe degree of exposure except
  - a) ppm (parts per millions)
  - b) mppcf (milions of particles of a particulate per cubic foot of air)
  - c) mg/m<sup>3</sup> (Milligrams of a substance per cubic meter of air)
  - d) pa (pascal)
- Q.3 Which strategy may be necessary when it is not feasible to render the working environment completely safe?
  - a) Inspection and audits
  - b) Engineering controls
  - c) Administrative controls
  - d) Personal Protective Equipment

- Q.4 Gravimetric analysis, the principle of \_\_\_\_\_ and \_\_\_\_\_ of a particulate on the filter is followed
- Filtration and deposition
  - Deposition and collection
  - Segregation and filtration
  - Coagulation and deposition
- Q.5 What is the science that studies the poisonous, or toxic, properties of substances?
- Virology
  - Toxicology
  - Epidemiology
  - Pharmacology
- Q.6 What is the criteria of selection of suitable personal protective equipment?
- Adequate protection against the hazards to which the worker is exposed
  - Maximum comfort and minimum weight compatible
  - No restriction for the essential movements
  - All the above
- Q.7 What are the circumstances which necessitate the use of personal protective equipment?
- There might be a breakdown in the plant
  - When isolation of process is not possible
  - Ventilation controls fails.
  - All the above circumstances
- Q.8 The calculated dose of a substance that is expected to kill 50 percent of a defined experimental animal population when exposure occurs through any route other than inhalation is called the:

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- KR50
  - LD50
  - Lethal Dose ratio
  - Lethal Dose Limit
- Q.9 TLVs and PELs are published by which of the following agencies?
- NIOSH and OSHA
  - ACGIH and MSHA
  - ACGIH and OSHA
  - OSHA and MSHA
- Q.10 What is the basic principle of operating a passive air-sampling device?
- Dispersion
  - Diffusion
  - Oxidation
  - All of the above

### SECTION-B

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

- Aerosols
- Dry bulb temperature
- Asbestosis
- Toxicity
- Personal monitoring
- Asphyxiants
- Lethal Concentration (LC)
- Teratogen
- Electrochemical reactions
- Chemical permeation
- Heat stress
- Dermal exposure

### SECTION-C

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

- Heat stress and its control

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