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MIS-024

**POST GRADUATE CERTIFICATE IN
INDUSTRIAL SAFETY/ P. G. DIPLOMA
IN INDUSTRIAL SAFETY
(PGCINDS/ PGDINDS)**

Term-End Examination

December, 2024

**MIS-024 : MECHANICAL AND ELECTRICAL
SAFETY MANAGEMENT**

Time : 3 Hours

Maximum Marks : 70

Note : (i) *Question No. 1 is compulsory.*

(ii) *Attempt any **five** questions from the
remaining questions (Q No. 2 to 8).*

1. (A) Answer the following objective type questions : 5×2=10

(a) Hazard Identification mainly focuses on :

(i) Chemical source and concentration

- (ii) Chemical Exposure
 - (iii) Chemical Analysis
 - (iv) Chemical Pathway
- (b) The secondary coil of a current transformer must never be while energized.
- (i) Grounded
 - (ii) Opened
 - (iii) Examined
 - (iv) Shortened
- (c) According to the IS code, the colour of earth wire is usually :
- (i) Red
 - (ii) Green
 - (iii) Yellow
 - (iv) Black
- (d) The purpose of CPR is to :
- (i) Stabilize body temperature to avoid hypothermia
 - (ii) Build upper body strength
 - (iii) Dislodge blood clots within the victim's lungs
 - (iv) Maintain oxygenated blood circulation

- (iv) Wood

(v) Discuss the need of First Aid in Industry.

3. (a) Discuss various risk factors associated with manual handling activities. How can it be avoided ? 5

- (b) Write down general safety precautions during handling of hazardous chemicals. 5
4. (a) Explain reliability and mean time between failures (MTBF) with suitable examples. 5
- (b) Differentiate fixed path and variable path equipments. 5
5. (a) What are the main precautions carried out at the time of work at high voltage lines ? 5
- (b) Enlist do's and don'ts in manual lifting operations. 5
6. (a) What is CPR ? What are the procedures of first aid to be followed for unconscious electric shock victims ? 5
- (b) Discuss various safety tips while working with circuit breakers. 5
7. Write short notes on any *two* of the following : 5+5
- (a) Earth leakage protective devices
- (b) Personal Protective Equipment (PPE)
- (c) Hazard Identification

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