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MIS-021

M. Sc. (Industrial Safety)
(MSCIDS) / P.G. Diploma in Industrial
Safety (PGDINDS) / P.G. Certificate in
Industrial Safety (PGCINDS)
Term-End Examination
June, 2024

MIS-021 : SAFETY PHILOSOPHY AND
PRINCIPLES OF ACCIDENT PREVENTIONS

Time : 3 Hours

Maximum Marks : 70

*Note : Question No. 1 is compulsory. Attempt any
 five questions from the remaining i.e.,
 Question 2 to 9.*

1. (A) Choose the correct answers : $5 \times 2 = 10$

- (i) Which of the following is not included in the safety programme for achieving good results during the prevention of accidents ?

- (a) Corrective action when safety rules are ignored.
 (b) Development of safe working conditions.
 (c) Promotion of employees Participation in safety.
 (d) Compensation and medical payment.

(ii) In case of arc welding, one should protect his eyes using :

- (a) Dark glass screen.
 (b) Safety goggles.
 (c) Mask
 (d) Helmet

(iii) As per the colour code, red colour indicates :

- (a) Fire prevention
 (b) Radiant Hazards
 (c) First-aid Equipment
 (d) General caution

(iv) Which of the following can not be used as a safety device ?

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- (a) Helmet
- (b) Interlocks
- (c) Limit switch
- (d) Chair
- (v) Fire extinguisher is :
 - (a) Active Fire protection system
 - (b) Passive fire protection system
 - (c) To be brought during fire hazard.
 - (d) Fire detection unit

(B) Answer the following in shorts : $5 \times 2 = 10$

- (i) What is the basic concept of Industrial Safety ?
- (ii) Differentiate between hazard and risk.
- (iii) Define active fire protection system.
- (iv) What is safety Audit ?
- (v) What are the various causes of the accidents ?

2. (a) What are the immediate and ultimate objectives of an accident Investigation ? 5

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- (b) Why documentation of safe work instructions plays a vital role in Industry ? 5
- 3. Describe the 5's concept of house keeping. 10
- 4. What is an accident ? Explain the various factors involved in calculating the cost of the accidents. 10
- 5. Explain the various factors which may lead to explosion. 10
- 6. Explain the General Guidelines for the usage of various Material handling equipments. 10
- 7. What are loss control techniques ? How these are used to reduce the possibility of a loss and limit the severity ? Explain. 10
- 8. Explain the various kinds of PPE used to prevent head and legs injury. 10
- 9. Write short notes on any two of the following : 5 + 5
 - (a) Cost of Accidents
 - (b) Safety Training
 - (c) Fire Safety
 - (d) 5 'S' concept

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