

7. Write short notes on any *three* of the following :

3×5=15

- (a) Safety Audit
- (b) Ergonomics
- (c) Metal Safety Data Sheet
- (d) Importance of first aid and medical facility in industries.



Roll No.

Total Pages : 04

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M.Sc. (Environmental Sciences)

(Second Semester)

Environmental Health and Safety (ESP-114-V)

Time : 3 Hours]

[Maximum Marks : 75

Note : It is compulsory to answer all the questions (1.5 marks each) of Part A in short. Answer any *four* questions from Part B in detail. Different sub-parts of a question are to be attempted adjacent to each other.

Part A

1. (a) Name any *three* categories of water-borne diseases. 1.5
- (b) What are the benefits of conducting employee wellness survey ? 1.5
- (c) What is HAZCHEM code ? Give an example. 1.5
- (d) Define Risk assessment. How is it done ? 1.5

- (e) How does human body respond to heat stress ?
1.5
- (f) What are the impacts of inhalation of CO on human beings ?
1.5
- (g) Differentiate acute toxicity from chronic toxicity.
1.5
- (h) What are symptoms of Hand-Arm Vibration Syndrome ?
1.5
- (i) What are the different routes of exposure to chemicals ?
1.5
- (j) Explain the terms LD₅₀ and LC₅₀.
1.5

Part B

2. (a) Discuss in detail the effect of physiological response of man to environmental stress. 10
- (b) What are impacts of both high and low humidity on efficiency of worker ? 5
3. Write short notes on any *three* of the following :
3×5=15
- (a) Environment Health Criteria

- (b) Effects of Noise pollution on human health
- (c) Cadmium and Arsenic toxicity
- (d) Indoor air pollution.

4. Discuss the various hazards identification techniques. 15
5. (a) Explain epidemiology in context of occupational health. 5
- (b) Examine the work permit system, its necessity, types and implementation to control high-risk activities in hazardous environments. 10
6. (a) Discuss the Factories Act, 1948, its key provisions, amendments and role in regulating occupational health, safety and welfare in manufacturing units. 7.5
- (b) Describe the Public Liability Insurance Act, 1991 (and amendments), its objectives and application to hazardous substance accidents. 7.5