

B.Sc. F & S Semester-6 Examination**CC****Health, Safety and Environment****Time : 2-30 Hours]****April-2024****[Max. Marks : 70****Question-1 Write the following:**

- i. Why do we need occupational health and safety management system? Describe Key elements for health and safety system. 7
- ii. How do four 'Cs' contribute in implementation of positive health and safety culture? 7

OR

- i. Planning is the key to ensuring that the health and safety efforts really work. Justify this with your answer. 7
- ii. Describe those important parameters which are responsible in measuring the health and safety performance. 7

Question-2 Write the following:

- i. What is the meaning of safety psychology? Describe the need and aim of safety psychology.
- ii. What is MSD? How is it dangerous. If work tasks and equipment do not include ergonomic principles in their design, workers may have exposure to undue physical stress, justify this with your answer.

OR

- i. Define ergonomics. Describe various categories of ergonomics. What are the correct posture when we work on computer? 7
- ii. What is the difference between safety psychology and safety philosophy? Describe important factors affecting safety at work. 7

Question-3 Write the following:

- i. What is pollution? Describes various types of pollution. 7
- ii. What is Oil Emulsification? How are BOD and COD dangerous? Describe their interpretation. 7

OR

- i. Describe various types of environmental issues in fire protection system. 7
- ii. Describe acute health effect of high concentration of carbon dioxide present in environment. Describe various sources of CO₂ in environment. 7

Question-4 Write the following:

- i. Can an environmental audit become the substitute of risk assessment? Explain briefly. Why is environmental audit needed? 7
- ii. How scope and objectives of environmental audit is set? Explain in brief. 7

OR

- i. How are solid wastes classified? Explain Characteristics of solid waste and impact of solid wastes on environment. 7
- ii. Describe audit methodology for conducting environment audit at a construction site. 7

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Question-5 Attempt any seven out of twelve.

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1. is a by-product of the anaerobic respiration of bacteria, and these bacteria thrive in landfills with high amounts of moisture in land fill.
 - a. CO₂
 - b. H₂S
 - c. NH₃
 - d. CH₄
2. Proper solid waste management have to be undertaken to ensure that it does affect the environment and not cause health hazards to the people living there. (True / False)
3. poses a threat to local surface and ground water systems.
 - a. Liquid waste
 - b. Solid waste
 - c. Hazardous waste
 - d. All of the above
4. Firefighting foams can also emulsify oil on waterfowl, causing the to lose their insulation and buoyancy in water, and may result in the death.
 - a. Fishes
 - b. Snakes
 - c. Crocodile
 - d. Birds
5. What is aquatic toxicity?
6. Turbid water due to rust and musty stagnation would be subject to BMP for containment and sediment control. (True / False)
7. Motivation includes:
 - a. Inspiration
 - b. aspiration,
 - c. Communication
 - d. Education
 - e. All the above
8. Good working conditions are more conducive to good in industry
 - a. Trust
 - b. Motivation
 - c. Morale
 - d. Attitude
9. Which is not the characteristics of frustrated behaviour:
 - a. Suggestion
 - b. Regression
 - c. Fixation
 - d. Aptitude
10. Psychological safety measures put stress on for safe performance, which is also a statutory need (Sec.7A) under our Factories Act, 1948.
 - a. Instruction
 - b. Information
 - c. Training

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- d. Supervision
 - e. All the above
11. is directly connected with science, technology, engineering, health, hygiene, toxicology, psychology, management and law.
- a. Safety
 - b. Environment
 - c. Psychology
 - d. Philosophy
12. In a modern society, people will not allow to ignore the impact of their activities on surrounding communities.
- a. Society
 - b. Government
 - c. Organizations
 - d. Pollution Control Board

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