CENTRAL BHARAT SEVAK SAMAJ

NATIONAL DEVELOPMENT AGENCY, ESTABLISHED IN 1952 BY PLANNING COMMISSION, GOVT. OF INDIA

CENTRAL BOARD OF EXAMINATIONS

BSS NATIONAL VOCATIONAL EDUCATION MISSION

FSS014-BSS ADVANCED DIP IN OCCUPATIONAL SAFETY,HEALTH & ENVIRONME

ONE YEAR EXAMINATION NOVEMBER-2025

FSS014-01 INTERNATIONAL MANAGEMENT FOR HEALTH & SAFETY-I & II

TIME: 3 Hours **Marks: 100**

INSTRUCTIONS

* 43 questions are there in total
* Write answers to each question in proportion to the mark allotted
* During the first 15 minutes read the questions carefully

I. FILL IN THE BLANKS - ANSWER FOR ANY 10 QUESTIONS **1 x 10 = 10**

1) What is emergency control plan?

2) What 5 hazards in your workplace can you identify as most possible?

3) Treat: Reduce the risk by _____ and _____, to minimize the likelihood of its occurrence or minimize its impacts (potential or actual).

4) _____ : Pay a third party or insurance company that will take the risk on your behalf.

5) _____ : a legally enforced moral duty to anticipate possible causes of injury and illness

6) _____ : includes buildings, vehicles, vessels, trains and aircraft.

7) SANS _____

8) User (with regard to machinery): a person who uses _____ for his/her own benefit.

9) _____ Products Control Act (83 of 1993)

10) The _____ requires the employer to ensure that all staff who work with ladders are properly informed and trained in the correct use of ladders.

11) _____ does not go away, it accumulates and can harm humans, animals, and plants.

12) _____ : RU Campus Protection Unit and the SHE Officer give fire safety talks to student residences and departments/divisions on campus, by request.

13) Fire is a kind of _____, involving three major components – illustrated as the three sides of a triangle.

14) _____ : A near miss event or an undesired circumstance which has the potential to cause injury, ill health, damage or other loss.

15) _____ = likelihood/probability that injury or damage will happen, if a situation is out of control

II. DEFINE THE FOLLOWING - ANSWER FOR ANY 10 QUESTIONS **2 x 10 = 20**

1) Explain Proactive monitoring techniques
2) Aim of Health and Safety?
3) Health and safety law?
4) 4 Senior Management?
5) Health and safety meetings?
6) Unsafe conditions?
7) Emergency medical services?
8) Recording non-employee incidents/accidents?
9) Considerations for investigations?
10) Using a hand-held extinguisher?
11) WHAT TO DO IN AN EMERGENCY / FIRE?
12) Work environment?
13) Signage?
14) Wellness?
15) Reasonably practicable?

III. WRITE BRIEF ANSWER FOR ANY 5 QUESTIONS **5 x 5 = 25**

1) Explain the reasons for maintaining and promoting good standards of Health and Safety in the workplace
2) The principles of health and safety?
3) Health and safety rep functions?
4) Health and safety checklists?
5) The purpose of health and safety committee meetings?
6) Section 24(c): near miss incidents?
7) First aid kits?
8) Campus-wide crisis?

IV. WRITE LONG ANSWER FOR ANY 3 QUESTIONS **15 x 3 = 45**

1) Explain the meaning of the term 'Hierarchy of control' and Outline with examples, the general hierarchy that should be applied with respect to controlling Health and Safety risks in the workplace
2) Outline the benefits to an employer of conducting accident investigations
3) Explain The impact of accidents?
4) Describe Causes and prevention of fire?
5) Write long notes Housekeeping?

CENTRAL BHARAT SEVAK SAMAJ

NATIONAL DEVELOPMENT AGENCY, ESTABLISHED IN 1952 BY PLANNING COMMISSION, GOVT. OF INDIA

CENTRAL BOARD OF EXAMINATIONS

BSS NATIONAL VOCATIONAL EDUCATION MISSION

FSS014-BSS ADVANCED DIP IN OCCUPATIONAL SAFETY,HEALTH & ENVIRONME

ONE YEAR EXAMINATION NOVEMBER-2025

FSS014-02 INTERNATIONAL WORKPLACE SAFETY-I & II

TIME: 3 Hours **Marks: 100**

INSTRUCTIONS

* 43 questions are there in total
* Write answers to each question in proportion to the mark allotted
* During the first 15 minutes read the questions carefully

I. FILL IN THE BLANKS - ANSWER FOR ANY 10 QUESTIONS **1 x 10 = 10**

1) _____ are those who design process plant, they choose values, decide on how access will be gained and how cleaning will take place.
2) _____ are scientists, engineers, and public health professionals committed to protecting the health people in the workplace and the community
3) The _____ in every country has an immediate and direct impact on national and world economies.
4) The scope of occupational health and safety is _____
5) The occupational environment of the worker cannot be considered apart from his _____
6) Fluctuation in core temperature about 2 0 C below or 3 0 C above the normal core temperature of _____ impairs performance markedly and a health hazard exists.
7) _____ in water that is below 10 0 C, for a prolonged time, usually in excess of 24 hours
8) _____ causes vascular disorders of the arms and bony changes in the small bones of the wrist.
9) _____ that we use to heat food have wavelengths that are about 1 hundredth of a meter long and have frequencies of about 2.5 billion Hertz.
10) The _____ are thought of in terms of their effect on living cells.
11) Shielding can be designed using _____, the thickness of material that reduces the radiation by half.
12) _____ is any pressure variation or a stimulus that produces a sensory response in the brain.
13) Impact (impulse) type Noise: is a sharp _____
14) Noise-induced hearing loss is 100 percent preventable but once acquired, hearing loss is _____ and _____
15) _____ is a relationship between exposure and health effect that can be established by measuring the response relative to an increasing dose

II. DEFINE THE FOLLOWING - ANSWER FOR ANY 10 QUESTIONS **2 x 10 = 20**

1) Environmental health professionals?
2) Model of Disability?
3) Define the following terms Control?
4) Extremes of Temperature?
5) Heat Stress?
6) Give Example of Electromagnetic radiation?
7) Radon?
8) Industrial Noise?
9) Laundry?
10) What are the main health effects of Noise?
11) How does the occupational environment of the worker affect the health of his or her families and the general population?
12) What are the advantages of hazard warning symbols or signs?
13) Toxic Doses (TDs)?
14) Sub-chronic Toxicity?
15) What are the Simple hand tools are the causes of many accidents?

III. WRITE BRIEF ANSWER FOR ANY 5 QUESTIONS **5 x 5 = 25**

1) Identify the elements of a work environment?
2) Man and his psychosocial environment?
3) Explain the effects of chemicals such as organic solvents?
4) Discuss the difference between ionizing and non-Ionizing radiations?
5) Mechanical Hazards?
6) Zoonosis?
7) Ergonomic Hazards?
8) What is dose-response?

IV. WRITE LONG ANSWER FOR ANY 3 QUESTIONS **15 x 3 = 45**

1) Explain what must be proved for an organisation to be found guilty of corporate manslaughter?
2) Explain the scope of occupational health and safety?
3) Describe Effects of ionizing radiation upon human health?
4) Explain dose-Response Relationships?
5) Describe Minimizing health effects of ionizing radiation?

CENTRAL BHARAT SEVAK SAMAJ

NATIONAL DEVELOPMENT AGENCY, ESTABLISHED IN 1952 BY PLANNING COMMISSION, GOVT. OF INDIA

CENTRAL BOARD OF EXAMINATIONS

BSS NATIONAL VOCATIONAL EDUCATION MISSION

FSS014-BSS ADVANCED DIP IN OCCUPATIONAL SAFETY,HEALTH & ENVIRONME

ONE YEAR EXAMINATION NOVEMBER-2025

FSS014-03 ENVIRONMENTAL MANAGEMENT

TIME: 3 Hours **Marks: 100**

INSTRUCTIONS

* 43 questions are there in total
* Write answers to each question in proportion to the mark allotted
* During the first 15 minutes read the questions carefully

I. FILL IN THE BLANKS - ANSWER FOR ANY 10 QUESTIONS **1 x 10 = 10**

1) The best way to reduce risk is to _____
2) What is the best way to protect pedestrians from lorries on a construction site?
3) One method often used in system safety programs for complex systems is _____
4) The first National park to be established in India was _____
5) The _____ can be a huge setback for tourism industry that relies on tourists for their daily livelihood
6) The _____ is the physical basis for Remote Sensing
7) _____ are rarely found in nature, being almost invariably produced by nitration reactions using nitric acid as the starting agent.
8) The _____ is derived from the name of the Greek goddess of health known as Hygeia.
9) Detecting mycotoxins: Monitoring the _____ will help in controlling mycotoxins
10) Van Mahotsav includes _____
11) Soil erosion can be prevented by _____
12) Green House effect refers to _____
13) Soil erosion is caused by _____
14) Water scarcity is mainly caused due to _____
15) _____ Dam is situated in region of high seismicity

II. DEFINE THE FOLLOWING - ANSWER FOR ANY 10 QUESTIONS **2 x 10 = 20**

1) Differentiate between ionizing and non-ionizing radiation.
2) State four main principles linked to the definition occupational health.`
3) Plume behavior?
4) Neutral Atmosphere?
5) Define composting?
6) Fundamental Rights and Duties?
7) Conservation of forests?
8) The soil environment?
9) The solid fraction of the soil?
10) Soil texture?
11) Prenatal Effects?
12) Depletion of the Ozone Layer?
13) Infertile Land?
14) Burning of fossil fuels?
15) Population explosion?

III. WRITE BRIEF ANSWER FOR ANY 5 QUESTIONS **5 x 5 = 25**

1) Identify some National and International organization concerned with Environment
2) Write a note on biogas?
3) Write a note an solar cells?
4) Explain briefly on solid waste characteristics?
5) Write a note on aerated lagoon?
6) Usage of 'Internet' for Environment Protection?
7) Explain Concept of Disaster Management and its Mitigation?
8) Explain Management of Epidemics like Dengue?

IV. WRITE LONG ANSWER FOR ANY 3 QUESTIONS **15 x 3 = 45**

1) Identify the main steps of application for the EMS certification
2) Outline the goals and objectives of Environmental protection act, 1986
3) Why is the Government imposing ban on the use of polythene bags and plastics? Suggest alternatives. How is this ban likely to improve the environment?
4) Elaborate on Kyoto and Montreal protocol?
5) Describe types of Environment. Add a note on methods and importance of Study?