



BOTSWANA COLLEGE OF DISTANCE AND OPEN LEARNING

BACHELOR OF EDUCATION – PRIMARY

HEALTH AND SAFETY- HS 211

BACHELOR OF EDUCATION – IECD

HEALTH AND SAFETY IN EARLY CHILDHOOD ENVIRONMENT

HSE 211

SESSIONAL EXAMINATION

MARKS: 100

DURATION: 3 HOURS

Instructions to students:

1. The examination paper consists of **FIVE** sections: A, B, C, D and E.
2. Begin each answer to a **new section** on a new page
3. Answer all the questions according to instructions given in each section
4. Write in grammatical English
5. Complete all details as required by the answer booklet.

SECTION A: MULTIPLE CHOICE

(10 MARKS)

Instructions:

There are 10 questions in this section please answer them all. Each item has four possible responses numbered A, B, C and D. Read each item carefully then write the best possible answer in the answer booklet.

1. Which of these **best** describes the “likelihood of an incident occurring”?
 - A. Risk
 - B. Hazard
 - C. An event
 - D. An episode

2. Which of the following is an example of physical hazard?
 - A. Fungus
 - B. Chemicals
 - C. Bacteria
 - D. Radiation

3. If you are injured at work no matter how insignificant is you must
 - A. Go home
 - B. Go to the hospital
 - C. Report to the supervisor
 - D. Tell your family

4. Noise is measured in
- A. Decibels
 - B. Turbulence
 - C. Ecology
 - D. Watts
5. Who is responsible for the safety of his employees
- A. Health and safety committee
 - B. Government
 - C. Employer
 - D. Risk assessment committee
6. Which of the following is **not** an administrative noise control measure
- A. Machine operated during shifts
 - B. Limiting time a person spends at noise source
 - C. Provision of quiet areas
 - D. Use of low noise tools
7. Which one of the following is one of the causes of fire spreading in buildings
- A. elimination of sources of ignition
 - B. high concentration of dust
 - C. too much carbon dioxide
 - D. high concentration of carbon dioxide

8. Glare on laptop screen can lead to

- A.** Eye problems
- B.** Deafness
- C.** Choking
- D.** Tinnitus

9. Which of the following is an example of physical symptom of stress?

- A.** Isolation
- B.** Anger
- C.** Impatience
- D.** Headache

10. What causes mechanical hazard

- A.** Chemicals
- B.** Biological waste
- C.** Dangerous parts of machine
- D.** Dangerous parts from the environment

SECTION B: MATCHING

(10 MARKS)

Match items in COLUMN A with a related statement in COLUMN B.

Write down the letter of response from column B next to the corresponding number (1-10) in your answer booklet.

COLUMN A	COLUMN B
<p>1. _____ is an example of unsafe acts</p> <p>2. Legal expenses are an example of ____</p> <p>3. _____unsafe condition</p> <p>4. Gives the overall intentions of the direction of the organization in relation to its safety and health</p> <p>5. Safety and health officer is the _____ of safety and health committee.</p> <p>6. It can occur when light is reflected off shiny surfaces.</p> <p>7. Route entry of hazardous chemical into the body</p> <p>8. One of the principles of correct manual handling.</p> <p>9. _____is one of the effect of mechanical hazards</p> <p>10. Third step in risk assessment process</p>	<p>I. Health and safety policy</p> <p>II. Noise exposure</p> <p>III. Correct grip</p> <p>IV. Indirect glare</p> <p>V. Secretary</p> <p>VI. Accident</p> <p>VII. Horseplay</p> <p>VIII. Bruises</p> <p>IX. Smothering</p> <p>X. Hidden costs</p> <p>XI. Inhalation</p> <p>XII. Evaluation</p> <p>XIII. Control</p>

SECTION C: STRUCTURED QUESTIONS

Answer all the questions.

Total marks 20

1. Define the following terms in relation to health and safety **(2 marks each)**
 - a. Accident
 - b. Safety and Health
 - c. Risk assessment
 - d. First aid
2. Explain the meaning of the phrase “so far as is reasonably practicable” **(4 marks)**
3. Differentiate between the following a criminal liability and a civil liability **(4 marks)**
4. What is Ergonomics? **(2 marks)**
5. Outline any three (3) examples of commitments contained in a safety and Health policy **(2 marks)**

SECTION D: CASE STUDY

(20 MARKS)

You are a science teacher at Gaborone primary school. Your science Laboratory assistant did not turn up for duty so you requested two students to go into the storeroom and clean up. There are a number of containers stacked in the storeroom, some with warning labels on them. The containers stored oils, paints, general cleaning materials, hydrochloric acid, caustic soda and methylated spirit. A number of containers that have been previously used are left on the floor of the storeroom.

1. Identify five possible effects of hazards for the students working in the storeroom. **(5 marks)**
2. State protective clothing items needed by the student. **(5 marks)**
3. Discuss the hierarchy of control measures the student could write for the laboratory assistant. **(10 marks)**

SECTION E: ESSAYS

(40 MARKS)

There are three essays in this section. Each carries 20 marks. Choose and answer only **two essays**.

Question 1

Discuss **four** psychosocial factors that cause stress at work **(20)**

Question 2

Using the fire triangle below describe the principle of combustion and fire extinction. **(20 marks)**



Question 3

(20 marks)

Discuss how you will form an occupational safety and health committee in your school. Outline the roles of your committee members.