



**NAMIBIA UNIVERSITY OF SCIENCE AND TECHNOLOGY**

**FACULTY OF HEALTH, APPLIED SCIENCES and NATURAL RESOURCES**

**DEPARTMENT OF HEALTH SCIENCES**

<b>QUALIFICATION :</b> BACHELOR OF ENVIRONMENTAL HEALTH SCIENCES	
<b>QUALIFICATION CODE:</b> 08 BOHS	<b>LEVEL:</b> 6
<b>COURSE NAME:</b> OCCUPATIONAL HEALTH AND SAFETY 2B	<b>COURSE CODE:</b> OHS612S
<b>DATE:</b> NOVEMBER 2022	<b>SESSION:</b> 1 <sup>ST</sup> Opportunity
<b>DURATION:</b> 3 HOURS	<b>MARKS:</b> 100

<b>FIRST OPPORTUNITY EXAMINATION QUESTION PAPER</b>	
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<b>MODERATOR:</b>	<b>MR IMMANUEL ZERIAPI</b>

<b>INSTRUCTIONS</b>
<ol style="list-style-type: none"><li>1. Read all the questions carefully before answering.</li><li>2. Answer the questions.</li><li>3. Marks for each question are indicated at the end of each question.</li><li>4. Number the answers clearly.</li><li>5. Please ensure that your writing is legible, neat and presentable.</li></ol>

**PERMISSIBLE MATERIAL: NONE**

**THIS QUESTION PAPER CONSISTS OF 5 PAGES**  
(Including this front page)

## SECTION A [20 MARKS]

### QUESTION 1

[10]

1.0 Define the following terms/concepts in the context of Occupational Health and Safety.

- 1.1 Hazard [1]
- 1.2 Risk [1]
- 1.3 Risk assessment [1]
- 1.4 Risk evaluation [1]
- 1.5 Hazard elimination [1]
- 1.6 Administrative control [1]
- 1.7 Mutagens [1]
- 1.8 Local effect [1]
- 1.9 Biological hazards [1]
- 1.10 Zoonosis [1]

### QUESTION 2

[10]

2.0 Choose the correct answer from the alternatives given; write the question number and the correct letter representing your answer.

- 2.1 Death of the liver cell is called. [1]
  - a) Cirrhosis
  - b) Hepatic necrosis
  - c) Liver cancer
  - d) Nephrotoxic
- 2.2 Chemicals that cause damage to the kidneys are called. [1]
  - a) Cirrhosis
  - b) Hepatic necrosis
  - c) Liver cancer
  - d) Nephrotoxins

2.3 Chemical substances which can depress the central nervous system are called. [1]

- a) Asphyxiants and narcotics
- b) Irritants
- c) Anesthetics
- d) Carcinogens

2.4 Chemicals that cause abnormalities in the unborn baby are called. [1]

- a) Mutagens
- b) Carcinogens
- c) Teratogens
- d) Systematic poison

2.5 These chemicals effects are usually permanent and may take years to show up. [1]

- a) Chronic
- b) Acute
- c) Local
- d) Systemic effect

2.6 The following respiratory condition causes damage to the blood capillaries in the lungs causing fluid to leak into the surrounding tissues causing swelling. [1]

- a) Broncho constriction
- b) Airway odema
- c) Pneumonia
- d) Pneumoconiosis

2.7 Disease of vertebrate animals chiefly transmissible to humans is called. [1]

- a) Zoonosis
- b) Anthroozoonois
- c) Zooanthroponosis
- d) Zooanthros

2.8 Disease of humans transmissible to other animals (Anthroozoonois). [1]

- e) Zoonosis
- f) Anthroozoonois
- g) Zooanthroponosis
- h) Zooanthros

- 2.9 An example of a safety hazard. [1]
- a) Radiation
  - b) Rabies virus
  - c) Trauma
  - d) Stacked material

- 2.10 This has to do with muscles, lever, force and strength. [1]
- a) Anthropometry
  - b) Biomechanics
  - c) Applied psychology
  - d) Social psychology

## SECTION B [20 MARKS]

### QUESTION 3 [20]

- 3.1 Interpret the following abbreviations in the context of Occupational Health and Safety in measuring chemical hazards. [5]

3.1.1 TLV

3.1.2 TWA

3.1.3 STEL

3.1.4 EELs

3.1.5 MAC

- 3.2 There are several measures and strategies designed to prevent, control, reduce or eliminate the occupational hazards and risks yet accidents are still too frequent. Outline any **five (5)** reasons why accidents still happen in the workplaces. [5]

- 3.3 List any **5(five)** OHS Related Legislation in Namibia. [5]

- 3.4 Explain why risk assessment is important. [5]

## SECTION C [60 MARKS]

### QUESTION 4 [20]

- 4.1 Name and explain the **three (3)** main “routes of exposure,” or ways a chemical can get into the body. [6]
- 4.2 State any **six (6)** objectives of ventilation. [6]
- 4.3 Outline any **eight (8)** safe disposal measures of Mercury on Spillage. [8]

### QUESTION 5 [20]

- 5.1 Justify why it is important to have a hazard communication standard in a workplace. [4]
- 5.2 Name and explain the 16 headings of the Safety Data Sheet. [16]

### QUESTION 6 [20]

- 6.1 Workplaces should establish an ergonomics program to minimize musculoskeletal disorders. Outline the elements of a good ergonomic program. [10]
- 6.2 Discuss SMART lifting of loads technique. [10]

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**TOTAL MARKS = 100**