



NAMIBIA UNIVERSITY OF SCIENCE AND TECHNOLOGY

FACULTY OF HEALTH, APPLIED SCIENCES and NATURAL RESOURCES

DEPARTMENT OF HEALTH SCIENCES

QUALIFICATION : BACHELOR OF ENVIRONMENTAL HEALTH SCIENCES	
QUALIFICATION CODE: 08 BOHS	LEVEL: 7
COURSE NAME: OCCUPATIONAL HEALTH AND SAFETY 3	COURSE CODE: OHS 711S
DATE: June 2022	SESSION: 1 ST Opportunity
DURATION: 3 HOURS	MARKS: 100

FIRST OPPORTUNITY EXAMINATION QUESTION PAPER	
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MODERATOR:	PROF OMOTAYO AWOFOLU

INSTRUCTIONS	
<ol style="list-style-type: none">1. Read all the questions carefully before answering2. Marks for each question are indicated at the end of each question3. Number the answers clearly.4. Please ensure that your writing is legible, neat and presentable	

PERMISSIBLE MATERIAL: NONE

THIS QUESTION PAPER CONSISTS OF 4 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 Conduction [2]

1.2 Conductors [2]

1.3 Cardiopulmonary resuscitation [2]

1.4 Flashpoint [2]

1.5 Toxicokinetics [2]

QUESTION 2

[10]

2.0 Match a statement in Column A to their most correct definition or description in Column

B. Write on your answer sheet the correct column A number with a correct column B letter

1 mark each

No	COLUMN A	COLUMN B
2.1	Domino Theory	A. Overload is an example of this theory
2.2	Human Factors Theory	B. Current that can cause muscle contractions and pain
2.3	3 - 10 milliampere	C. Injuries are caused by the actions of preceding factors.
2.4	100 – 200 milliampere	D. defined as an event that result in injury or ill-health.
2.5	An accident	E. Current that can cause ventricular fibrillation
2.6	Hepatotoxicity	F. An identification of the hazards present and an estimate of the extent of the risk involved
2.7	Risk assessment	G. Chemical effects to the Blood
2.8	Hematotoxicity	H. Chemical effects to the Liver
2.9	Hazard	I. Chemical effects to the Nervous Systems
2.10	Neurotoxicity	J. The potential of a substance, activity or process to cause harm

SECTION B [20 marks]

QUESTION 3

[10]

3.0 Severe bleeding is one of the situations that requires immediate emergency attention, because it makes it difficult for the heart to pump enough blood to your body. As the fluid loss increases, shock can lead to organ failure.

3.1 Outline **five (5)** signs and symptoms of severe blood loss.

[5]

3.2 Mention **three (3)** Emergency situations where immediate First Aid techniques can save lives.

[3]

3.3 List **any (2)** instances in which a First Aider can stop Cardiopulmonary Resuscitation

[2]

QUESTION 4

[10]

4.1 Briefly explain the importance of making permanent record of all accident evidence as quickly as possible during an accident investigation

[3]

4.2 State the **three (3)** goals of fire prevention.

[3]

4.3 Differentiate between safety inspections and safety audits.

[4]

SECTION C [60 marks]

This section consists of FOUR questions. Answer **any THREE** questions in your answer book.

QUESTION 5

[20]

5.1 Outline the purposes of conducting Occupational Health and Safety inspections.

[10]

5.2 Name and explain the **four(4)** types Occupational Health and Safety inspections inspections.

[10]

QUESTION 6 [20]

6.1 Overheating of cables and equipment is one of the most common causes of fire in electrical installations.

6.1.1 Explain the causes of cables and equipment's overheating [8]

6.1.2 State the solutions to overheating [2]

6.2 Outline the possible help that is needed to be given to a person who have collapsed from an electric shock. [10]

QUESTION 7 [20]

7.1 Identify and briefly explain the **Four (4)** processes involved in Toxicokinetics. [8]

7.2 State the factors which determine the severity of toxicity that results when a xenobiotic enters the body. [7]

7.3 Discuss the Minamata mercury poisoning disaster. [5]

QUESTION 8 [20]

8.0 Construction sites have many hazards that may pose a danger to the workers, thus the goal of construction safety is to ensure a "safe place of work".

8.1 State the hazards that can be caused by work in excavations. [10]

8.2 Illustrate the factors to be considered when using Scaffolds for construction purposes. [10]

TOTAL MARKS = 100