



PAMIBIA UNIVERSITY
OF SCIENCE AND TECHNOLOGY
Faculty of Health and Applied Sciences

DEPARTMENT OF HEALTH SCIENCES

QUALIFICATION : BACHELOR OF ENVIRONMENTAL HEALTH SCIENCES	
QUALIFICATION CODE: 08 BOHS	LEVEL: 6
COURSE CODE: OHS612S	COURSE NAME: OCCUPATIONAL HEALTH AND SAFETY 2B
SESSION: NOVEMBER 2019	PAPER: THEORY
DURATION: 3 HOURS	MARKS: 100

FIRST OPPORTUNITY EXAMINATION QUESTION PAPER	
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MODERATOR	PROFESSOR OMOTAYO AWOFOLU

INSTRUCTIONS
<ol style="list-style-type: none">1. Answer ALL the questions.2. Write clearly and neatly.3. Number the answers clearly.

PERMISSIBLE MATERIALS
NONE

THIS QUESTION PAPER CONSISTS OF 3 PAGES
(Including this front page)

SECTION A
[20 MARKS]

QUESTION 1

(10 marks)

1.0 With examples define the following terms as used in Occupational Health and Safety 2B:

- 1.1 Biomechanics. [2]
- 1.2 Occupational Accident. [2]
- 1.3 Risk. [2]
- 1.4 Biological Hazard. [2]
- 1.5 Safety Data Sheet [2]

QUESTION 2

(10 marks)

2.0 With examples, differentiate the following terms:

- 2.1. Unsafe practice and unsafe condition. [2]
- 2.2. Risk Evaluation and Risk Assessment. [2]
- 2.3. Static Anthropometry and Dynamic Anthropometry. [2]
- 2.4. Natural Ventilation and Dilution Ventilation. [2]
- 2.5. Ceiling concentration and Threshold Limit Values. [2]

SECTION B
[35 MARKS]

QUESTION 3

(20 marks)

- 3.1. State the **six (6)** hazard classification categories. Give examples for each. [6]
- 3.2. With the aid of a diagram, explain the biohazard symbol. [6]
- 3.3. With examples explain any **four (4)** causes of back pain and injuries [8]

QUESTION 4

(15 marks)

- 4.1. Identify any **five (5)** reasons why accidents still happen in the workplace. [5]
- 4.2. According to the Globalised Harmony System (GHS), the main health and physical hazards must be indicated on the product label by using pictures, signal words, and standardized hazard statements. Draw and explain the following hazard statements:

- a) Acute toxicity. [2]
- b) Oxidizing, liquids and solids. [2]
- c) Flammable. [2]
- d) Explosive. [2]
- e) Sensitization. [2]

SECTION C
[45 MARKS]

QUESTION 5

(45 marks)

- 5.1. Elaborate how accidents can be prevented in the workplace using the four E's principle. [20]
- 5.2. Discuss any **five (5)** common ergonomic risk factors. What solutions can you offer to ensure minimal occurrence of these risk factors. [15]
- 5.3 With examples, explain any five (5) objectives of ventilation. [10]

TOTAL MARKS = 100