



**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 BEHS	LEVEL: 6
COURSE: OCCUPATIONAL HEALTH AND SAFETY 2B	COURSE CODE: OHS612S
DATE: JANUARY, 2019	SESSION: SEMESTER 2, 2018
DURATION: 3 HOURS	MARKS: 100

SECOND OPPORTUNITY/SUPPLEMENTARY EXAMINATION QUESTION PAPER	
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INSTRUCTIONS
1. Answer ALL the questions. 2. Write clearly and neatly. 3. Number the answers clearly.

PERMISSIBLE MATERIALS
NONE

THIS QUESTION PAPER CONSISTS OF 4 PAGES
(Including this front page)

SECTION A [20 MARKS]

QUESTION 1

[20]

Match the concepts in Column A to with the correct definition in Column B. Write on your answer sheet the concept number and the letter representing the correct definition.

Column A		Column B	
1.1	Accident	A	A ceiling concentration", which may never be exceeded under any circumstances.
1.2	Cadmium	B	Risk that is below or at recommended levels.
1.3	Engineering	C	This is the average maximum concentration of substances in air that is normally harmless even with prolonged exposure.
1.4	Risk Assessment	D	The movement of air into, through, within or out of a building
1.5	Acceptable level	E	An unplanned and uncontrolled event caused by an unsafe act or unsafe condition which may or may not result in injury or damage to property and even death"
1.6	Threshold Limit Values	F	A soft, ductile, silver-white, electropositive metal.
1.7	Ventilation	G	Provision of a Safe Plant/ Safe working Condition through proper designing of the plant
1.8	Ceiling Concentration	H	Elements of the work environment, management practices or organizational practices that pose a risk to mental health and well-being.
1.9	Psychosocial Hazards	I	A function aimed at protecting organizations, their people, assets and the environment from the adverse effects of risk.
1.10	Enforcement	J	An attempt by to compel observance or obedience of set laws and regulations.

QUESTION 2**[10]**

Copy this table below and fill in the with the appropriate description.

Hazardous **Biological Agents** Regulations (Classification)

Hazard Class		Description
2.1.	1(a)	
2.2.	1(b)	
2.3.	II	
2.4.	III	
2.5.	IV	

Classification of different **types of hazards** found in the workplace.

Classification of Hazards		Description
2.6.		CO, SO ₂ , Benzene, total dust, vapors
2.7.		bacteria, viruses, toxins, venoms
2.8.		heat, vibrations,
2.9.		machinery moving parts
2.10.		poorly designed workstations

SECTION [33 MARKS]**QUESTION 3****[33]**

3.1. Differentiate the following terms:

- a) Direct transmission and Indirect Transmission. [2]
- b) Biological Hazard and Biological Agent. [2]
- c) Natural Ventilation and Dilution Ventilation. [2]
- d) Local Effects and Systematic Effects. [2]
- e) Static Anthropometry and Dynamic Anthrpometry. [2]

- 3.2. Outline the health effects that chemicals can cause to human beings. [8]
- 3.3. Worker education on lifting techniques is the best way of ensuring that workers do not get injured at work. With the aid of a diagram, draw and explain the correct lifting technique. [8]
- 3.4. According to the Globalised Harmony System (GHS), the main health and physical hazards must be indicated on the product label by using pictograms, 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. [1]

SECTION C

[45]

QUESTION 4

- 4.1 Elaborate on any **five (5)** effects of psychological hazards in the workplace. [15]
- a) In your view, describe how these psychological hazards be controlled. [10]
- 4.2. Discuss any **five (5)** factors that puts a worker risk in the event of a chemical exposure in the workplace. [20]

TOTAL MARKS = 100