

**UGANDA MARTYRS UNIVERSITY**  
**FACULTY OF HEALTH SCIENCES**  
**BACHELOR OF SCIENCE IN PUBLIC HEALTH**  
**ACADEMIC YEAR: 2022/2023**  
**MODULE: OCCUPATIONAL HEALTH AND SAFETY**  
**COURSE CODE: BSPH 1205**

**DATE: AUGUST, 13<sup>th</sup> 2023**

**TIME: 9AM to 12PM**

**Time allowed: Three hours**

**INSTRUCTIONS:**

1. The examination paper is divided into two sections (A and B).
2. Answer all questions in sections A (50 marks) and B answer only two questions (50 marks)

Section A: work-place occupational health and safety

**Key:**

- a. **Type of industry** (could be health care industry, farming, food processing, etc)
- b. **Ownership** (Government/Public ownership, private non-profit, private for-profit, etc)
- c. **Nature of industry** (formal, informal)
- d. **Size of the industry** (Big when it employs more than 100 people, medium size when it employs 25-100 people, and small when it employs less than 25 people).

**Question one:** Select one organization or firm or industry. (You may select from a fieldwork site)

	Question item	Your response
1	Name of the industry	.....
2	Type of the industry	.....
3	Nature of the industry	.....
4	Size of the industry	.....
5	Using one example, describe how the industry is designed to anticipate occupational-related hazards	.....
6.	Using two examples, explain the strategies your selected	

	industry uses to control occupationally related hazards	
7	Using your knowledge of hierarchy for control measures for occupational occupation hazards, what are the strengths and weaknesses in the strategies your selected organization uses to control occupational hazards	
8	Name the strategy that your organization uses when it schedules conditioning programs for workers	
9.	Provide two examples of conditioning programs for workers in your selected organization.	.....
10	Explain two benefits and one hiccup that may arise from the use of conditioning programs for workers	

Section B: Answer only two questions

**Question 2:**

Suppose that you have been given an opportunity to lead a team of public health officials in the community Muvia who are required to help the community make improvements in their occupational health and safety. You have selected an **abattoir** as your first assignment. Describe the approach you will use to produce your action points.

### Question 3

*Read and connect with the information provided to answer the questions that follow;*

Rawlance Ndejjo, et al, carried out a study in 2015 and collected data from 8 major health facilities in Kampala using a quantitative cross-sectional study. The study was premised on the available information that indicated that healthcare workers operate in an environment that is considered to be one of the most hazardous occupational settings. In addition to the usual workplace related exposures, healthcare workers encounter diverse hazards due to their work-related activities. The table below summarizes their findings of their study.

*Table of summary findings on occupational health from 8 major health facilities in Kampala*

Hazards experienced by health workers	Frequency (%)
Sharp-related injuries (such as needle sticks)	43 (21.5)
Cuts and wounds	34 (17)
Direct contact with contaminated specimens/biohazardous materials	21(10.5)
Airborne diseases	18(9.0)
Infectious diseases and/or infections	15(7.5)
Others (bloodborne pathogens, vector-borne diseases, and bioterrorism)	15 (7.5)
Stress	43 (21.5)
Physical, psychological, sexual, and/or verbal abuse	21(10.5)
Musculoskeletal injuries	21 (10.5)
Slips, trips, and/or falls	12 (6.0)
Fractures	10 (5.0)
Others (chemical spills, noise, burns, and radiations)	20 (10.0)

- Using the summary of their findings make a statement of the researcher's definition of occupation health and safety.
- Describe researchers' main and sub-categorization of occupation health hazards in their study.
- Describe the control measures that are employed in such a setting.
- Discuss the relationship between the two commonest hazards in the study. What would be taken to be the most appropriate measure for reducing the risks of exposure to two hazards?

### Question 4

*Using the systematic approach to hazard assessment, arrange the following steps in order beginning with first starting with first step to the last:*

- Communicate the hazard assessments and required controls to all workers who perform the tasks.
- Identify the controls that will eliminate or reduce the risk — (ii)
- Implement the controls for each hazard.
- List all work-related tasks and activities — (i)

- Last*
- v. Evaluate the controls periodically to ensure they are effective.
  - ①+ vi. *✓* Assess the risk of the hazard by considering the severity of consequences of exposure, the probability that the exposure will occur and the frequency the task is done.
  - ② vii. Identify potential biological, chemical, physical, ergonomic or psychological hazards associated with each task.

...End....