

**EGERTON**

**UNIVERSITY**



**UNIVERSITY EXAMINATION**

**REGULAR-NJORO CAMPUS**

**EXAM SESSION, 2023/2024 ACADEMIC YEAR**

**THIRD-YEAR EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE**

**IN ENVIRONMENTAL SCIENCE**

**ENSC 334: OCCUPATIONAL HEALTH AND SAFETY**

**STREAM: B.Sc (ENSC & TOHM)**

**TIME: 2HRS**

**EXAMINATION SESSION: APRIL**

**YEAR: 2024**

**INSTRUCTION**

- (i). Attempt all the questions in section A and any TWO in section B
- (ii). Do not write on the question paper
- (iii). Illustrate your answer with suitable diagrams and formulas where appropriate

**SECTION A (40 MARKS)**

**Question One**

Distinguish between the following terms as user in Occupational Health and safety

- a) Incident and accident (2 Marks)
- b) Work procedures and work practices (2 Marks)
- c) Occupational diseases and Occupational disorders (2 Marks)
- d) Workers' health surveillance and working environment surveillance (2 Marks)

**Question Two**

- (a) Briefly explain any THREE fundamental principles of occupational health and safety (6 Marks)
- (b) Elaborate on the importance of communication as a critical component of occupation health and safety management system (4 Marks)

**Question Three**

- (a) Assessing risks associated with a hazard in a workplace is crucial. Explain in details how this step is accomplished (6 Marks)
- (b) Explain the aim of applying ergonomics in the workplace. (4 Marks)

**Question Four**

- Accident investigation is one of the most essential elements of health and safety program.
- Discuss the steps taken to investigate an accident in a workplace (10 Marks)

**SECTION B (30 MARKS)**

**Question Five**

- With the help of a diagram, discuss the hierarchy of hazard controls that provide the framework for reducing risks to employees in a manufacturing industry (15 Marks)

**Question Six**

- Imagine that you have been assigned the role of an inspection team leader to inspect a food processing industry. Discuss the steps you will undertake in the inspection process of the said industry. (15 Marks)

**Question Seven**

- “The responsibility of government, employers, and employees should be complementary and mutually reinforcing in the common good of promoting occupational health and safety”.

Discuss (15 Marks)

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