

ENSC 334

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 used 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 takes 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)
