



MACHAKOS UNIVERSITY

University Examinations 2019/2020 Academic year

SCHOOL OF HEALTH SCIENCES

DEPARTMENT OF PUBLIC AND COMMUNITY HEALTH

THIRD YEAR FIRST SEMESTER EXAMINATION FOR

BACHELOR OF ENVIRONMENTAL STUDIES (COMMUNITY DEVELOPMENT)

BACHELOR OF ENVIRONMENTAL STUDIES (RESOURCE CONSERVATION)

HEH 304: OCCUPATIONAL HEALTH AND SAFETY

DATE: 3/12/2019

TIME: 8.30-10.30 AM

INSTRUCTIONS

This paper consists of two sections A and B

Section A is compulsory

Section B choose any two (2) questions

SECTION A (COMPULSORY)

QUESTION ONE (30 MARKS)

- a) Define the following terms
 - i. Occupational health (1 mark)
 - ii. Ergonomic Hazards (1 mark)
- b) Differentiate between simultaneous and phased fire evacuation strategies (4 marks)
- c) Explain the importance of health and safety regulations in a work place (3 marks)
- d) Identify three (3) physical hazards due to coldness in a workplace (3 marks)
- e) list six (6) sources of information about hazards in a work place for newly employed persons (3 marks)
- f) Outline the role of employers in provision of safe conditions in a work place (3 marks)
- g) Advice Mary on the emergency measures after a friend spills sulphuric acid on her face (3 marks)
- h) Identify three (3) functions of a Director in the implementation of Work Injury Benefit Act, 2007 (3 marks)
- i) Workplace ergonomics improves productivity. Justify (3 marks)

- j) Explain how your work as a cabinet secretary in charge of environment and forestry in Kenya today can be a source of stress (3 marks)

SECTION B:

Specific Instructions

- This section has four (4) question
- Answer any two (2) questions
- Each question is 20 Marks

QUESTION TWO (20 MARKS)

- a) As a member of the health and safety committee in Machakos University, give a talk on “fire drill” to the staff members (10 marks)
- b) Discuss unsafe acts that have led to number of road accidents in the Kenyan Public transport sector (10 marks)

QUESTION THREE (20 MARKS)

- a) Advise the laboratory technician of Mkoa secondary school on safe storage measures of calcium oxide and carbon tetrachloride ordered for a chemistry practical class (10 marks)
- b) As an employee of Mayfox mining company in Turkana, explain common diseases and health conditions you are likely suffer from (10 marks)

QUESTION FOUR (20 MARKS)

- a) Discuss different levels at which different health hazard can be identified in a mango juice processing company (10 marks)
- b) Explain different strategies an employer can use to control stress and reduce its impact to an employee (10 marks)

QUESTION FIVE (20 MARKS)

- a) Explain to a flower farm manager the different personal protective equipment available for his workers (10 marks)
- b) Describe the roles of Health and Safety Committee in Hazard Identification, Evaluation, and Control (10 marks)