



TECHNICAL UNIVERSITY OF MOMBASA

FACULTY OF APPLIED AND HEALTH SCIENCES

DEPARTMENT OF ENVIRONMENT & HEALTH SCIENCES

UNIVERSITY EXAMINATION FOR:

**BACHELOR OF SCIENCE IN ENVIRONMENTAL HEALTH,
BACHELOR OF SCIENCE IN COMMUNITY HEALTH & BACHELOR
OF SCIENCE IN SOCIAL DEVELOPMENTAL STUDIES.**

BSEH/16J/YEAR 3/ SEMESTER 1

BSCH & BSDS/16S/YEAR 2/SEMESTER 1

**APH 4307: PRINCIPALS OF OCCUPATIONAL HEALTH AND
SAFETY**

SPECIAL/ SUPPLEMENTARY EXAMINATIONS

SERIES: SEPTEMBER 2018

TIME: 2 HOURS

Instructions to Candidates

This paper consists of FIVE questions

Answer question ONE (COMPULSORY) and any other TWO questions.

This paper consists of two printed pages.

Mobile phones are NOT allowed in the examination room

QUESTION ONE

- a) Define Global burden of disease and hazard. (4 marks)
- b) Describe the difference between Occupational disease and work-related disease. (5 marks)
- c) Outline the possible effects of electricity on the body. (5 marks)
- d) Describe the following terms: ergonomics and psychosocial hazards. (4 marks)
- e) Differentiate between ionizing and non-ionizing radiation. (6 marks)
- f) Outline the aspects of OHS that were addressed by the "Ottawa Charter 1986" on health promotion. (6 marks)

QUESTION TWO

a) From the point of view of measurable risk, it should be recognized that control of the probability of exposure and seriousness of injuries to workers depends on three factors. Explain.

(10 marks)

b) OHS is a multi-disciplinary activity targeting four basic aspects. Explain. (10 marks)

QUESTION THREE

Outline the means of controlling exposure to ionizing radiation (shielding/ distance/ time).

(20 marks)

QUESTION FOUR

a) Define a Health and safety Audit and outline key areas that maybe covered within a Health and safety Audit. (10 marks)

b) Explain types of health hazards. (10 marks)

QUESTION FIVE

a) Briefly explain the key stages of a workplace risk assessment. (10 marks)

b) “Personal Protective Equipment (PPE) is said to be the last resort in hazard and risk management”. Discuss (10 marks)