



# TECHNICAL UNIVERSITY OF MOMBASA

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FACULTY OF APPLIED AND HEALTH SCIENCES

DEPARTMENT OF PURE & APPLIED SCIENCES

**UNIVERSITY EXAMINATION FOR:**

**DIPLOMA IN ANALYTICAL CHEMISTRY**

**DAC 15S**

**ACH2206 : INDUSTRIAL SAFTY AND STANDARDS**

**END OF SEMESTER EXAMINATION**

**SERIES: DECEMBER 2016**

**TIME: 2 HOURS**

**DATE:** Pick Date Select Month Pick Year

## Instructions to Candidates

You should have the following for this examination

*-Answer Booklet, examination pass and student ID*

This paper consists of **FIVE** questions. Attempt question ONE (Compulsory) and any other TWO questions.

**Do not write on the question paper.**

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## Question ONE

(a) For each of the following types of hazardous substances, give a two examples and

state its primary effect on the body.

(i) Toxic substance.

(ii) irritant

(iv) carcinogenic

(9marks)

(b) Discuss FOUR major routes of entry of hazardous substance into the body.

(12 marks)

(c) Differentiate between respirable dust and inhalable dust.

(4 marks)

(d) List FIVE principal hazards associated with electricity.

(5marks)

## Question TWO

(a) Explain the danger associated with the following compounds in industrial safety.

(i) Asbestos. (ii) Cl<sub>2</sub>. (iii) CO. (iv) Isocyanate. (12marks)

(b) List THREE causes of biological hazards. (3marks)

## Question THREE

(a) State FOUR sources of ionizing radiation. (8marks)

(b) List FOUR sources of non ionizing radiation. (4marks)

(c) Explain the term “*qualitative risk assessment*”

## Question FOUR

(a) State FOUR benefits of an employer for providing sound information and training to employee. (8marks)

(b) Give THREE failures of a manager or supervisor in his/her area of supervision . (6mark)

(c) Define the term Risk. (1marks)

## Question FIVE

(a) Give six reasons why training in health and safety is carried out in an organization. (12marks)

(b) List three by law of health and safety. (3marks)

(c) Define Generic risk assessment. (3marks)