



Technical University of Mombasa

Faculty of Applied and Health Sciences

DEPARTMENT OF **PURE AND APPLIED SCIENCES**

DIPLOMA IN ANALYTICAL CHEMISTRY

(DAC 12S)

ACH 2206: INDUSTRIAL SAFETY AND STANDARDS

SPECIAL/SUPPLEMENTARY: EXAMINATIONS

SERIES: OCTOBER 2013

TIME: 2 HOURS

INSTRUCTIONS:

You should have the following for this paper

- *Answer booklet*

This paper consists of **FIVE** questions.

Answer Question **ONE (compulsory)** and any other **TWO** questions

This paper consists of 2 PRINTED pages

Question ONE

- a) Define noise (1mark)
- b) Briefly discuss any FIVE methods that can be used to reduce noise levels received by employees. (15marks)
- c) Give FOUR examples of substances that are toxic. (4marks)

Question TWO

- a) List THREE
 - (i) Principle acute effects (6marks)
 - (ii) Principle chronic effects of noise (9marks)
- b) (i) Briefly discuss the THREE forms of ionizing Radiations (3marks)
- (ii) State their main route of entry into the human body. (2marks)
- c) Explain the Harmful effect of ionizing radiation. (2marks)

Question THREE

- a) List FOUR effects that are caused by A cute exposure to ionizing radiation (4marks)
- b) Explain the meaning of the following terms associated with ionizing radiations.
 - (i) Somatic effect (4marks)
 - (ii) Genetic effect. (4marks)
- c) List FOUR sources of ionizing radiation (4marks)
- d) List FOUR significant finding records that are taken during risk assessment. (8marks)

Question FOUR

- a) Discuss the following basic forms of risk assessment.
 - (i) Qualitative risk assessment (10marks)
 - (ii) Quantitative risk assessment (4marks)
- b) State the main objectives of risk assessment. (6marks)
- c) State the FIVE steps to risk Assessment. (6marks)

Question FIVE

- a) Explain the work of ILO (4marks)
- b) Discuss the FOUR groups of the occupation health and safety standards. (12marks)