



TECHNICAL UNIVERSITY OF MOMBASA

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.

Question ONE

- (a) Discuss THREE routes entry of toxic substance into the body. (6marks)
- (b) Define: (i) A toxic substance. (2marks)
- (ii) Radioactivity (1mark)
- (iii) Isotope (1mark)
- (c) State the properties of the following ionizing radiation.
- (i) Alpha particles. (4marks)
- (ii) Beta particles. (4marks)
- (iii) Gammar rays. (3marks)
- (d) Differentiate between a hazard and a risk. (4marks)
- (e) Discuss Asbestos types of specific hazard. (5marks)

Question TWO

- (a) State FOUR requirements of risk assessment. (8marks)
- (b) Discuss FUNGI and VIRUS agents that transport Biological hazards. (7marks)

Question THREE

- (a) State any SIX methods used for controlling noise. (12marks)
- (b) Define “ Respirable dust” and give TWO examples. (3marks)

Question FOUR

- (a) Discuss the following classification of hazardous substances and give FOUR examples of each.
- (i) Irritants substances. (4marks)
 - (ii) Corrosive substances. (3marks)
- (b) State FOUR benefits of an employer for satisfying Legal requirements, providing sound information and training to employees in an industry. (8marks)

Question FIVE

- (a) State (i) Reason of training managers and supervisors in an organization. (2marks)
- (ii) THREE failures of a manager or supervisor in his/her area of supervision. (6marks)
- (b) List SIX principal hazards that are associated with electricity. (6marks)
- (c) Define the term Earthing. (1mark)