



TECHNICAL UNIVERSITY OF MOMBASA

FACULTY OF APPLIED AND HEALTH SCIENCES
DEPARTMENT OF PURE & APPLIED SCIENCES

UNIVERSITY EXAMINATION FOR:
DIPLOMA IN ANALYTICAL CHEMISTRY
DAC 14S

ACH 2208: LABORATORY PRACTICE II
END OF SEMESTER EXAMINATION

SERIES: APRIL 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) Define the following terms.
- (i) Inoculation. (2marks)
 - (ii) Immunity. (3marks)
 - (iii) Antigen. (2marks)
- (b) State *four* forms of culture media. (4marks)
- (c) Explain *Two* types of
- (i) isotopes. (2marks)
 - (ii) inbreeding systems. (2marks)
- (d) Name and differentiate between *two* types of Lymphocytes. (6marks)
- (e) Discuss briefly .
- (i) *Two* benefits of postmortem (4marks)
 - (ii) Radioactive trace process. (5marks)

Question TWO

- (a) State *Four* advantages of Artificial insemination. (4marks)
- (b) Explain the following types of animal breeding systems.
- (i) Pure breeding. (3marks)
 - (ii) Out crossing breeding. (3marks)
- (c) Explain the use of stable isotopes in Terrestrial systems. (5marks)

Question THREE

- (a) Define a
- (i) scientific report. (2marks)
 - (ii) Green house (3marks)
- (b) (i) State *two* aims of scientific report. (2marks)
- (ii) List *eight* sections of a scientific report in their correct order. (8marks)

Question FOUR

- (a) List (i) *five* Primary green house gases on the Earth atmosphere . (5marks)
- (ii) *four* Man-made green houses on the earth atmosphere. (4marks)
- (b) State *two* factors that determine how strong a particular green house gases will affect the Earth atmosphere (3marks)
- (c) Define the following terms
- (i) historical botanical gardens. (2marks)
 - (ii) Aquarium. (1marks)

Question FIVE

- (a) Define the term Herbarium (2marks)
- (b) Explain
- (i) *Four* uses of herbarium collection. (8marks)
 - (ii) Contemporary botanical garden. (5marks)