



TECHNICAL UNIVERSITY OF MOMBASA

FACULTY OF APPLIED AND HEALTH SCIENCES

DEPARTMENT OF PURE & APPLIED SCIENCES

UNIVERSITY EXAMINATION FOR:

DIPLOMA IN FOOD TECHNOLOGY AND QUALITY ASSURANCE

ACH2104: LABORATORY SAFETY AND MANAGEMENT PAPER 2

END OF SEMESTER EXAMINATION

SERIES: DECEMBER 2016

TIME: 2 HOURS

DATE: Pick Date Dec 2016

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 | Describe how to handle the following laboratory animals | 6marks |
| | i. rabbit | |
| | ii. hamster | |
| | iii. rodents | |
| B | State the precaution to be taken when working with separating funnel | 4marks |
| C | Outline the common hazards in the laboratory | 5marks |
| D | Describe any ten (10) laboratory plastic ware | 10marks |
| C | Explain the purpose of 'Standard Operating Procedure' in the laboratory | 2marks |
| F | Explain how one can store bacterial broth for long term use. | 3marks |

Question TWO

- A Explain why laboratory shelves should not be installed above sinks. 3marks
- B Your friend slips and knocks a corrosive reagent bottle and the solution spills on him/her and the floor. Outline the first aid measures to be taken 6marks
- C Outline four incidents where a First Aid may be required in the laboratory 4marks
- D Explain the purpose of a safety shower in the laboratory 2marks

Question THREE

- A Awino wants to carry glass bottles containing hazardous chemicals from chemistry laboratory to a biotechnology lab. Explain to her how she would carry them. 3 marks
- B Explain the application of Isotope in the medical field 4marks
- C Define a stable Isotope 2marks
- D Explain the hazards caused by the following
- i. a autoclave 2marks
 - ii. b batteries 2marks
 - iii. c centrifuge 2marks

Question FOUR

- A Outline common laboratory problems that need attention 10marks
- B State any Five (5) general laboratory rules 5marks

Question FIVE

- A Outline the concept of waste disposal in the laboratory 6marks
- B explain the purpose of laboratory inspection 6marks
- C state what should be included in chemical labelling 3marks