



TECHNICAL UNIVERSITY OF MOMBASA

FACULTY OF APPLIED AND HEALTH SCIENCES

DEPARTMENT OF ENVIRONMENT & HEALTH SCIENCES

UNIVERSITY EXAMINATION FOR:

DIPLOMA IN ENVIRONMENTAL HEALTH

ACH 2108: INTRODUCTION TO LABORATORY METHODS.

END OF SEMESTER EXAMINATION

SERIES:DECEMBER2016

TIME:2HOURS

DATE:Pick DateDec2016

Instructions to Candidates

You should have the following for this examination

-Answer Booklet, examination pass and student ID

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

- a) Explain the reason of painting laboratory walls with epoxy material (2marks)
- b) State two reasons for not covering laboratory furniture with fabric material (2marks)
- c) Explain laboratory sink design (3marks)
- d) Name the three main types of hazards (3marks)
- e) What are the purposes of recording laboratory data (2marks)
- f) What are the consideration when recording laboratory data (3marks)
- g) What is cryopreservation (2marks)
- h) Explain incineration as a laboratory waste disposal method (2marks)
- i) What is standard operating procedures (SOP) (2marks)
- j)How are the “Sharps” to be disposed (2marks)
- (k) What is radioisotopic laboratory
- (l) What is laboratory information management systems (LIMS) (2marks)
- (m) Explain the term laboratory accreditation (3marks)
- (n) Explain the purpose of laboratory accreditation (2marks)
- (o) What are the consideration for Laboratory accreditation 3(marks)
- (p) Explain what is good Laboratory practice (GLP) (3marks)
- (1mark)
- (q) Discuss quality assurance programme in the laboratory (3marks)
- State 10 personal and general laboratory safety rules (10 marks)
- 2.State five aspects to consider for safe storage of chemicals (5 marks)

3. a). Explain five characteristics of good scientific report (10 marks)
- b). State five roles of laboratory management (5 marks)
4. a) Discuss administration of equipment in the laboratory (4 marks)
- b) Explain administration of records in the laboratory (6 marks)
- c) Discuss administration of records in the Laboratory (5 marks)
5. Explain the uses of Laboratory information management system (15 marks)