



TECHNICAL UNIVERSITY OF MOMBASA

Faculty of Applied and Health Sciences

Department of Pure & Applied Sciences

UNIVERSITY EXAMINATION FOR:

DIPLOMA IN ANALYTICAL CHEMISTRY

ACH 2203: INDUSTRIAL SAFETY AND STANDARDS

END OF SEMESTER ORDINARY EXAMINATION

SERIES: DECEMBER 2024

TIME: 2 HOURS

DATE: Pick Date Dec 2024

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) Industrial hygiene (1 mark)
 - ii) Ergonomic Hazards (1 mark)
 - iii) Disaster (1 mark)
- b) List the elements of industrial hygiene (4 marks)
- c) State 5 labour laws in Kenya? (5 marks)
- d) Describe three main types of Biological Monitoring (3 marks)
- e) Explain potential health hazards posed by chemicals (5 marks)
- f) Describe five common work place hazards (5 marks)
- g) Explain disaster management (5 marks)

Question TWO

- a) State any six methods of sampling air in work place for hazards (6 marks)
- b) Explain each of the following determinant of how long sampling is done
- i). TWA (3 marks)
 - ii). STEL (4 marks)
 - iii). Ceiling (2 marks)

Question THREE

Discuss the scope of disaster management under the following points;

- a) Prevention (8 marks)
- b) Preparedness (6 marks)

Question FOUR

- a) State the mandate of Kenya bureau of standards (KEBS) (9 marks)
- b) Explain the key roles of KEBS (6 marks)

Question FIVE

- a) Explain the benefits of complying to Good Manufacturing Processes (GMP) (9 marks)
- b) State the roles of National Environment Management Authority (NEMA) (6 marks)