

**W1-2-60-1-6**

**JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY**

**UNIVERSITY EXAMINATIONS 2018/2019**

**EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN MEDICAL BIOCHEMSTRY**

**HBB 2214: PRINCIPLES OF LABORATORY MANAGEMENT AND QUALITY SYSTEMS**

**DATE: DECEMBER 2018 TIME: 2 HOURS**

INSTRUCTIONS: Answer question section A and other two questions from section B

SECTON A (30 MARKS)

QUESTION ONE

a. Write short notes on the following:

i. Proficiency testing

ii. Standard operating procedures

iii. Good laboratory practices

iv. Good clinical practice (6 marks)

b. Briefly discuss the principle of laboratory management (8 marks)

c. Outline and explain the stages of GAP analysis. (6 marks)

d. Explain the importance of laboratory internal audit. (5 marks)

e. Briefly explain types of medical laboratory examination. (5 marks)

SECTION B (40 MARKS)

QUESTION TWO

Discuss the elements of Quality Management Systems (QMS) (20 marks)

QUESTION THREE

The purpose of quality control in medical laboratory is to detect errors and correct them before results are reported. Explain the various components of quality control in medical laboratory.

(20 marks)

QUESTION FOUR

a. Explain the importance of standard operating procedures. (4 marks)

b. Discuss the general format standard operating procedures. (16 marks)