

**CHUKA**



**UNIVERSITY**

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**UNIVERSITY EXAMINATIONS**

**FOURTH YEAR SEMESTER TWO EXAMINATION FOR THE AWARD OF DEGREE  
OF BACHELOR OF SCIENCE IN BIOMEDICAL SCIENCE AND TECHNOLOGY**

**BMED 452: HOSPITAL AND LABORATORY MANAGEMENT**

**STREAMS: BSC BIOMEDICAL SCI & TECHNOLOGY Y4S2**

**TIME: 2 HOURS**

**DAY/DATE: TUESDAY 16/04/2019  
4.30 P.M.**

**2.30 P.M. -**

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**INSTRUCTIONS:**

- **Answer question ONE (COMPULSORY) and any other TWO questions**
- **Sketch diagrams may be used whenever they may help to illustrate your answer.**
- **Do not write anything on the question paper**
- **This is a closed book exam. No reference materials are allowed in the examination room.**
- **There will be No use of mobile phones or any other unauthorized materials**
- **Write your answers legibly and use your time wisely.**

**QUESTION ONE (COMPULSORY) 30 MARKS**

- (a) In detail, discuss the difference laboratory services can make to the quality of countries health care. (6 marks)
- (b) Discuss what should be included in the guidelines to ensure that there are no errors when placing an order during procurement laboratory equipment. (8 marks)
- (c) Discuss some of the common causes of incorrect laboratory equipment selection and procurement in developing countries like Kenya. (8 marks)
- (d) You are invited as a senior biomedical laboratory scientist in a local country referral hospital to deliver lecture on "HEALTH AND SAFETY IN HOSPITAL LABORATORIES." Briefly mention some key areas of interest in safe management of breakages in hospital laboratories. (8 marks)

**QUESTION TWO (20 MARKS)**

- (a) Briefly explain in what way the laboratory can contribute to achieving efficiency and cost effectiveness in country's health care. (6 marks)
- (b) Discuss information that laboratory can provide to achieve rational health planning and good health management. (8 marks)
- (c) You have been appointed as a county laboratory manager in your county. The county government wants to establish laboratory services in one of the health centre in your county. Briefly explain important consideration to discuss with

the county executive when deciding whether to place a laboratory in that health centre. (6 marks)

**QUESTION THREE (20 MARKS)**

(a) You are working as a senior medical laboratory scientist in a management position of a laboratory. Briefly discuss some of the information that you can request your juniors to be mandatory in a request for laboratory tests.

(5 marks)

(b) Briefly discuss the importance of standard operating procedure in quality management of a diagnostic laboratory.

(5 marks)

(c) Briefly discuss the emergency treatment that you can offer in a laboratory when your colleagues swallows an acid or alkali.

(5 marks)

(d) Discuss various methods used to decontaminate infectious material in laboratories.

(5 marks)

**QUESTION FOUR (20 MARKS)**

(a) Briefly discuss some of the indicators of poor training of laboratory personnel.

(5 marks)

(b) Briefly discuss the code of professional conduct for the medical laboratory personnel.

(5 marks)

(c) Briefly discuss three major areas of great concern when it comes to hospital and laboratory management.  
(5 marks)

(d) A laboratory scientist manager in a county hospital was approached by donor who wanted to donate some laboratory equipment at the county teaching and referral hospital. Discuss some of the important information that should be included in the donation guideline requested by the donor to indicate the donor's responsibilities.  
(5 marks)

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