

BMET 453

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

**EXAMINATION FOR THE AWARD OF BACHELOR OF BIOCHEMISTRY AND  
BIOMEDICAL SCIENCE AND TECHNOLOGY**

**BMET 453: HOSPITAL AND LABORATORY MANAGEMENT**

**STREAMS: BMET 453**

**TIME: 2 HOURS**

**DAY/DATE: THURSDAY 9/04/2020**

**2.30 P.M – 4.30 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 No use of mobile phones or any other unauthorized materials.
- Write your answers legibly and use your time wisely.

**QUESTION ONE [30 MARKS] COMPULSORY**

- a. Explain how laboratory acquired infections can be prevented. [5 Marks]
- b. Explain the roles of a laboratory supervisor in a biomedical research institution. [3 Marks]
- c. Discuss the guidelines for effective communication in a biomedical laboratory. [6 Marks]
- d. Discuss the common causes of consistent systematic errors in a laboratory. [8 Marks]

- e. Explain the two approaches of a management function in a health institution and laboratory management. [8 Marks]

**QUESTION TWO [20 MARKS]**

- a. Explain some eight factors that may contribute to laboratory accidents. [4 Marks]
- b. Identify the key information that should be captured while completing an order form or requisition form by a laboratory manager. [4 Marks]
- c. Briefly discuss some of the indicators of poor training of laboratory personnel. [6 Marks]
- d. Discuss various methods used to decontaminate infectious material in laboratories. [6 Marks]

**QUESTION THREE [20 MARKS]**

- a. Explain three skills needed by the laboratory supervisor to control and maintain laboratory equipments. [3 Marks]
- b. Explain the concepts of management in medical diagnostic or research laboratory organizations. [6 Marks]
- c. Briefly discuss three major areas of great concern when it comes to hospital and laboratory management. [6 Marks]
- d. In detail, discuss the difference that laboratory services can make to the quality of countries health care. [5 Marks]

**QUESTION FOUR [20 MARKS]**

- a. Illustrate the key information that should be captured in an issue voucher by a laboratory manager. [4 Marks]
  
  - b. Describe the basic principles of laboratory and health institution management. [6 Marks]
  
  - c. Briefly discuss the importance of standard operating procedure in quality management of a diagnostic laboratory. [5 Marks]
  
  - d. 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 junior to be mandatory in a request for laboratory tests. [5 Marks]
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