



## **MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY**

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### **UNIVERSITY EXAMINATIONS 2023/2024**

**FIRST YEAR, SECOND SEMESTER EXAMINATION FOR THE DIPLOMA IN ANIMAL  
HEALTH AND PRODUCTION**

#### **AAP 2156: MICROBIOLOGY**

**DATE: APRIL 2024**

**TIME: 1½ HOURS**

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**INSTRUCTIONS:** Answer Question ONE and any other TWO questions.

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#### **QUESTION ONE (30 MARKS)**

a) Define the following terms (6 Marks)

- Normal flora
- Pathogenicity
- Disease
- Mycology
- Serology
- Virology

b) State the general characteristics of bacteria (5 Marks)

c) Explain three indicator systems used in the growth of viruses (3 Marks)

d) Using examples classify fungi based on sexual reproduction (8 Marks)

e) State three common viruses in animals and the diseases they cause (6 Marks)

f) State four media used for fungal growth (2 Marks)



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## **QUESTION TWO (15 MARKS)**

Discuss the terms used to describe the morphology of fungal colonies during identification

(15 Marks)

## **QUESTION THREE (15 MARKS)**

- a) State the cultural characteristics of staphylococcus aureus (10 Marks)
- b) Define differential media and give an example (1 Mark)
- c) State four diseases caused by Escherichia coli (4 Marks)

## **QUESTION FOUR (15 MARKS)**

- a) State the general characteristics of Genus Rickettsia (10 Marks)
- b) Discuss two economic importance of fungi (4 Marks)
- c) Define facultative anaerobes (1 Mark)



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