

**MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY**

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**University Examinations 2015/2016**

SECOND YEAR SECOND SEMESTER EXAMINATION FOR DIPLOMA

IN

AGRICULTURE

**BIO 0211: MICRO BIOLOGY AND ZOOLOGY**

**DATE: AUGUST 2016 TIME: 1 ½ HOURS**

**INSTRUCTIONS:** *Answer question* ***one*** *and any other* ***two***questions.

**QUESTION ONE – (30 MARKS)**

1. Name at least three discipline related with microbiology (3 marks)
2. Name five examples of micro organisms (5 marks)
3. Define the term spontaneous generation (2 marks)
4. State three functions of cell membrane (3 marks)
5. State and explain briefly three theories of the origin of life (3 marks)
6. Define the term classification of organism (2 marks)
7. Outline at least four significance of classification in organism (4 marks)
8. State five characteristics o f kingdom animalia (5 marks)
9. Outline three ways in which viruses differ from living organism (3 marks)

**QUESTION TWO (15 MARKS)**

1. Discuss briefly Koch’s postulates summary of relationship between a micro-organism and specific disease (5 marks)
2. Outline at least five bacterium cell structures and their functions (10 marks)

**QUESTION THREE (15 MARKS)**

Discuss economic importance of micro-organisms (15 marks)

**QUESTION FOUR (15 MARKS)**

1. Outline five facts about amphibian (5 marks)
2. Discuss five characteristic of class Aves (5 marks)
3. Success of bony fish is due to certain evolutionary innovations namely? (5 marks)