

MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY

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University Examinations 2013/2014

SECOND YEAR, SECOND SEMESTER EXAMINATIONS FOR DIPLOMA IN AGRICULTURE

BIO 0211: MICROBIOLOGY AND ZOOLOGY

DATE: APRIL 2014

TIME: 1 ¹/₂ HOURS

INSTRUCTIONS: Answer question one and any other two questions

QUESTION ONE – (30 MARKS)

(a) Distinguish between Gram +ve and Gram –ve bacteria.(b) Outline four characteristics of fungi.	(2 Marks) (4 Marks)
(c) Discuss morphological adaptations of platyhelminthes to parasitic mode of	of life.
	(4 Marks)
(d) Draw a fully labelled structure of a bacteria cell.	(5 Marks)
(e) Give five differences between prokaryotes and eukaryotes.	(5 Marks)
(f) Name any two invertebrate minor phyla.	(2 Marks)
(g) Describe four economic importance of protozoa.	(4 Marks)
(h) Explain how the thorax is modified for locomotion in insects.	(4 Marks)
QUESTION TWO – (15 MARKS)	
Discuss biological success of insects.	(15 Marks)
QUESTION THREE – (15 MARKS)	
Explain in details the economic importance of bacteria.	(15 Marks)

QUESTION FOUR – (15 MARKS)

(a) Describe the various behavioural patterns shown by animals. (10 Marks)(b) Name and describe various life processes exhibited by living organisms. (5 Marks)

QUESTION FIVE – (15 MARKS)

Discuss the adaptations of birds to flight.

(15 Marks)