

MERU UNIVERSITY OF SCIENCE & TECHNOLOGY Foundation of innovations

MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY

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University Examination 2016/2017

THIRD YEAR, SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN FOOD SCIENCE AND MANAGEMENT AND BACHELOR OF SCIENCE IN HUMAN NUTRITION AND DIETETICS

AFT 3256: FOOD MICROBIOLOGY AND PARASITOLOGY

DATE: APRIL 2016

TIME: 2 HOURS

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

QUESTION ONE (30 MARKS)

- a) Define the following terms as used in food microbiology and parasitology. (10 marks)
 - i) Food microbiology
 - ii) Food spoilage
 - iii) Parasite
 - iv) Cryptosporidiosis
 - v) Indicator micro-organism
- b) Giving two examples in each case, explain what is meant by;
 - i) Intrinsic factors (5 marks)
 - ii) Extrinsic factors (5 marks)
- c) Outline the five main hurdles a food borne pathogen must overcome in order to cause a food borne illness. (10 marks)

QUESTION TWO (20 MARKS)

Discuss any five characteristics of microbial food borne infection.(20 marks)QUESTION THREE (20 MARKS)

Discuss giardiasis under the following headings

i)	Disease symptoms	(5 marks)
ii)	Persons at risk	(5 marks)
iii)	Prevention	(10 marks)

QUESTION FOUR (20 MARKS)

Discuss spoilage characteristics of the following

i)	Ropines in bread	(10 marks)
ii)	Flat sour spoilage in canned foods.	(10 marks)