

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) |