

MASENO UNIVERSITY **UNIVERSITY EXAMINATIONS 2016/2017**

FOURTH YEAR SECOND SEMESTER EXAMINATIONS FOR THE DEGREE OF BACHELOR OF SCIENCE IN MEDICAL LABORATORY SCIENCE WITH INFORMATION TECHNOLOGY

MAIN CAMPUS

PML 421: FOOD AND WATER MICROBIOLOGY

Date: 27th July, 2017

Time: 12.00 - 3.00 pm

INSTRUCTIONS:

Answer ALL questions in SECTION A and TWO questions in SECTION B

Section A: Answer ALL Questions (40 Marks).

1.	State five (5) keys to safer food as outlined by World Health Organisation (WHO)	5 mks
2.	Write short notes on three (3) basic heat treatment methods used in food preservation	5 mks
3.	List <u>five</u> (5) gram positive bacteria involved in food-borne infections and intoxication	ns 5 mks
4.	State common features of coliforms	5 mks
5.	Outline the principle of dye reduction test as used in the bacteriological quality an	alysis of
	milk	5 mks
6.	Briefly, outline food-borne intoxications	5 mks
7.	State any five (5) characteristics of indicator organisms used in water microbiology	5 mks
8.	Define mycotoxins and state two (2) microorganisms which produce mycotoxins 3 m	nks
9.	Name any two (2) viruses responsible for food-borne illness	2 mks
	Section B: Answer Two (2) questions (30 Marks). Question 10 is compulsor	rv.
10.	Outline the Most Probable Number (MPN) technique as used in bacteriological water	r quality
	analysis	15 mks
11.	Discuss legal aspects of food technology	15 mks

12. Discuss factors influencing growth of microorganisms in food

15 mks