

TECHNICAL UNIVERSITY OF MOMBASA

FACULTY OF APPLIED AND HEALTH SCIENCES DEPARTMENT OF PURE & APPLIED SCIENCES

UNIVERSITY EXAMINATION FOR:

DIPLOMA IN SCIENCE LABORATORY TECHNOLOGY : ACH 2111: BIOMEDICAL TECHNIQUES-MICROBIOLOGY SPECIAL/SUPPLEMENTARY EXAMINATION

SERIES: SEPTEMBER 2018

TIME: 2HOURS

DATE: Pick Date Sep 2018

Instructions to Candidates

You should have the following for this examination *Answer Booklet, examination pass and student ID*

This paper consists of FIVE questions. Attemptquestion ONE (Compulsory) and any other TWO questions.

Do not write on the question paper.

Question ONE

a) What is a microscope	(1mk)
b) Name two types of electron microscopes	(2mks)
c) Discuss resolution as used in microscopy	(5mks)
d) Differentiate between light and electron microscope	(6mks)
e) Discuss the following terms as used in microscopy	(8mks)
i. Dehydration:	
ii. Embedding:	
iii. Staining:	
iv. Mounting:	
f) Using relevant examples give the four forms of coccoid aggregations	(8mks)

Question TWO

Discuss modes of bacterial transmission (15mks)

Question THREE

a) What do you understand by the term sensitivityb) Why is sensitivity analysis donec) Describe the procedure for sensitivity analysis	(6mks) (4mks) (5mks)
Question FOUR	
Discuss sterilization techniques	(15mks)
Question FIVE	
Discuss bacterial virulence	(15mks)