



MASENO UNIVERSITY

UNIVERSITY EXAMINATIONS 2017/2018

THIRD YEAR FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN MEDICAL LABORATORY WITH INFORMATION TECHNOLOGY

MAIN CAMPUS

PMT 315: MEDICAL BACTERIOLOGY

Date: 26th February, 2018

Time: 12.00 - 3.00pm

INSTRUCTIONS:

- Answer ALL Questions in Section A
- Answer Question ONE and any other in Section B.
-



Section A 40 Marks. Answer all questions.

1. State Koch's molecular postulate 5 mks
2. Outline the characters considered during classification of bacteria 7 mks
3. Write short notes on *Mycoplasma* species 5 mks
4. State **SIX (6)** preventive measures against laboratory infections 6 mks
5. With aid of a diagram state the growth phases of bacteria in a non-continuous culture broth 5 mks
6. Briefly describe the composition of a bacterial lipopolysaccharide 7 mks
7. Complete the table below 5 mks

i.	Catalase negative cocci	
ii.		Is an enriched media
iii.	Oxidase positive organism	
iv.		Is an example of gram negative diplococcic
v.		Is a non-lactose fermenting bacteria

Section B: Answer TWO questions (30 Marks). Question 1 is compulsory.

1. Outline in details the gram staining technique as used in bacterial staining 15 mks
2. Discuss the disc diffusion technique as used in antibacterial susceptibility testing 15 mks
3. Cases of cholera outbreaks were suspected in Nairobi County in the year 2017, which were later confirmed in various laboratories in the county. Outline in details the



laboratory presumptive diagnosis, isolation and identification of the causative agent 15

mks

