

"Investing in Africa's Future"

COLLEGE OF HEALTH, AGRICULTURE & NATURAL SCIENCES

DEPARTMENT OF HEALTH SCIENCES

Bachelor of Medical Laboratory Sciences Honours

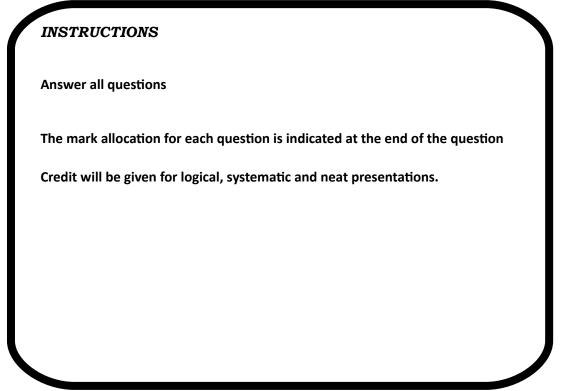
SLS 205 BACTERIOLOGY PRACTICAL

END OF SECOND SEMESTER EXAMINATIONS

APRIL/MAY 2018

LECTURER: Mr CHITURI

DURATION: 3 HOURS



1. An adult male goes to the clinic complaining of a chronic ulcer on the arm. The doctor notes that the ulcer is producing pus. You have been provided with the pus/ ulcer swab.

- a) Outline the necessary diagnostic procedures for such sample (5).
- b) Perform all the procedures that are supposed to be done on the day of receiving the sample and where possible report your results for each procedure (10)
- c) Indicate the possible pathogens that are expected from a pus/ ulcer specimen (5).
- d) Which commensal bacteria are expected to be present on the swab (5)
- 2. Your laboratory has received a stool specimen from a suspected cholera patient.
 - a) What are the necessary procedures for cholera diagnosis in a laboratory? (5)
 - b) Perform all the tests that need to be done as soon as you receive such a sample and where possible record your results for each procedure (10).
 - c) List other pathogens that might be found in stool (5)
- 3. You have been provided with a urine sample from woman with a request for bacteriological analysis.
 - a) Perform the necessary procedures that can be done on the first day of receiving the sample and record your results (14)
 - b) List any five pathogens that you might get from urine (5).
 - c) Indicate 3 possible contaminants in urine (3).
- 4. You have been provided with a sputum sample for routine checkups from a client who works in a food outlet. You are expected to perform the necessary diagnostic procedures that should be done on the day of receiving the sample.
 - a) Report your results for each diagnostic procedure (10).
 - b) What are the principles behind the tests that you are using (5)
- 5. A five year old girl is complaining of a sore throat. The doctor notes that the tonsils are inflamed and mostly covered in yellow spots and orders a laboratory analysis of the throat of a throat swab. You have been provided with the sample.Perform all the necessary diagnostic procedures which are supposed to be done on the first day of receiving a throat specimen which has such a clinical diagnosis.
 - a) Outline the importance of each procedure (6)
 - b) Report your results from each procedure (8).
 - c) Which commensal bacteria are expected to be present on the swab (4)

Total 100 MARKS