



"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

INSTRUCTIONS

Answer all questions

The mark allocation for each question is indicated at the end of the question

Credit will be given for logical, systematic and neat presentations.

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