



“Investing in Africa’s future”

COLLEGE OF HEALTH, AGRICULTURE AND NATURAL SCIENCES

NSLS 211: HISTOLOGY PRACTICAL

END OF SECOND SEMESTER FINAL EXAMINATIONS (SUPPLEMENTARY)

NOVEMBER 2019

LECTURER: DR S. MATSHALAGA

DURATION: 3 HRS

INSTRUCTIONS TO CANDIDATES

SECTION A: Answer all questions on separate answer sheets provided

SECTION B : Spot exam: Answer all questions on a separate sheet provided.

Section A:

1. Carry out the Haematoxylin and Eosin staining on the section provided using the method below (15).

Method

1. Dewax sections and bring sections to water as follow:
 - a. Xylene 3 mins
 - b. Xylene 3 mins
 - c. Xylene 3 mins
 - d. Absolute alcohol 3 mins
 - e. Absolute alcohol 3 mins
 - f. 95% alcohol 3 mins
 - g. 95% alcohol 3 mins
 - h. Rinse in tap water
2. Stain in Haematoxyllin 10 mins
3. Rinse in tap water
4. Differentiate in 1% acid alcohol 10 dips
5. Blue in Scott's tap water substitute 1 min
6. Stain in eosin 3 min
7. Dehydrate and clear the section as follows:
 - a. 95% alcohol 3 mins
 - b. Absolute alcohol 3 mins
 - c. Absolute alcohol 3 mins
 - d. Xylene 10 dips
 - e. Xylene 10 dips
8. Mount in poly-x mountant
9. Label your section using provided stickers.

2. What is the principle behind the Haematoxyllin and Eosin stain? (4)
3. Describe the staining characteristics of the tissue you have stained (2)
4. Identify the tissue you have stained. (2)
5. State ways in which this tissue is adapted to perform its function?(2)

Section B: Spot exam: Answer all questions.

1. H1-H5 are consumables in a histology laboratory. Identify each and state their functions (10).
2. H6-7 are special stains in histology. Identify the stains and report the results (4).
3. H6-H7 are two stains that are routinely used in a histology laboratory. State the cellular structures that each stain and the expected results (6).