



“Investing in Africa’s Future”

COLLEGE OF HEALTH, AGRICULTURE AND NATURAL SCIENCES
DEPARTMENT OF BIOMEDICAL AND MEDICAL LABORATORY SCIENCES
BACHELOR OF MEDICAL LABORATORY SCIENCES HONOURS DEGREE

NSLS210: HISTOLOGY I

END OF SEMESTER FINAL EXAMINATIONS

4 MAY 2021

LECTURER: DR MAIBOUGE SALISSOU

DURATION: 7 HOURS

INSTRUCTIONS

1. Write your candidate number on your answer sheets.
2. Answer any **ONE** question of your choice.
3. Each full question carries 100 marks
4. Submit your answer scripts as a PDF document through Moodle ONLY.
5. Use the following specifications in your answer scripts:
Font: Times New Roman
Font size: 12
Line spacing: 2.0
6. Credit will be given for logical, systematic and neat presentations.

QUESTION 1

Cartilage forms the supporting framework of certain organs, the articulating surfaces of bones and many parts of the body.

- 1) List and discuss in detail common features of all types of cartilage. (50 marks)
- 2) Compare and contrast the features of Hyaline cartilage and Elastic cartilage. (25 marks)
- 3) Give a detailed account of the disease conditions associated with each cartilage type.
(25 marks)

QUESTION 2

Both the urinary bladder and urethra are fundamental in cardiovascular and excretory function due to their common characteristics.

- a) Compare the histology of urinary bladder to that of the urethra. (50 marks)
- b) Discuss in detail the multifunctional nature of the bladder urethelium and how its structural changes can result in different disease conditions. (50 marks)

QUESTION 3

Tissue processing is a fundamental stage in Histology and Histopathology procedures.

- a) Give a detailed account of all the steps involved in tissue processing. (50 marks)
- b) Discuss the major steps that are involved in tissue processing in Immunohistochemistry and elaborate on the principle behind this technique. (50 marks)

END