

Candidate Number:.....



"Investing in Africa's Future"

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

NSLS210 HISTOLOGY

END OF SECOND SEMESTER FINAL EXAMINATIONS

FINAL EXAM 2024

LECTURER: DR MAIBOUGE SALISSOU

DURATION: 3 HOURS

INSTRUCTIONS

1. Write your candidate number on the space provided on top of each page
 2. Answer **all** questions in sections A on the question paper.
 3. Answer **all** questions in section B on separate answer sheets provided.
 4. Answer any **3** questions in section C on separate answer sheets provided
 5. The mark allocation for each question is indicated at the end of the question
 6. Credit will be given for logical, systematic and neat presentations in sections B and C
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SECTION A : MULTIPLE CHOICE [40 MARKS]

- Answer all questions by indicating T for TRUE or F for FALSE for each statement in all the questions
- Each correct response is allocated half mark

1. Transitional epithelium is found in

- (a) uterus
- (b) Urinary bladder
- (c) Gallbladder
- (d) Vagina

2. In pseudostratified columnar epithelium

- (a) All cells are attached to basement membrane
- (b) All cells do not reach the surface
- (c) The nuclei are situated at different levels
- (d) All of the above are correct

3. Stomach is lined by

- (a) Simple columnar epithelium
- (b) Stratified squamous epithelium
- (c) Pseudo stratified columnar epithelium
- (d) Simple cuboidal epithelium

4. Serous gland can be identified by the presence of serous acinus with

- (a) small lumen
- (b) large lumen
- (c) flat peripheral nuclei
- (d) mucigen droplets

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5. Plasma cells are derived from

- (a) monocytes
- (b) basophils
- (c) T lymphocytes
- (d) B lymphocytes

6. Which of the following is or are not true about fixed macrophage (histiocyte)? It

- (a) contains many lysosomes
- (b) has basophilic cytoplasm
- (c) can be stained with vital dyes
- (d) is involved in phagocytosis

7. Large number of elastic fibres are present in

- (a) tendon
- (b) ligamentum nuchae
- (c) basement membrane
- (d) aponeurosis

8. Elastic cartilage is present in

- (a) tracheal ring
- (b) epiglottis
- (c) intervertebral disc
- (d) costal cartilage

9. Perichondrium is absent in

- (a) elastic cartilage and hyaline cartilage
- (b) hyaline cartilage and cellular cartilage
- (c) fibrocartilage and articular cartilage
- (d) costal cartilage and ear pinna

10. Periosteum is absent over the following

- (a) articular surface of bone

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- (b) sesamoid bone
- (c) site of attachment of tendons and ligaments to the bone
- (d) Outer table of flat bone

11. Osteocytes can be identified by the presence of

- (a) many nuclei
- (b) lacuna around the cell
- (c) lysosomes
- (d) ingested particles

12. Thymus has the following features

- (a) is a central lymphoid organ
- (b) has no reticular fibres and reticular cells
- (c) involutes after puberty
- (d) is formed by B lymphocytes

13. Thymus-dependent zone of a lymph node is

- (a) cortex
- (b) paracortex
- (c) medullary cords
- (d) medullary sinuses

14. The cardiac muscle can be identified by the presence of

- (a) intercalated disc
- (b) flat peripheral nuclei
- (c) caveolae
- (d) triads

15. The red skeletal muscle fibre is characterised by the presence of

- (a) high content of myoglobin
- (b) many mitochondria

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- (c) rich blood supply
- (d) all of the above

16. The connective tissue sheath around a nerve is called

- (a) endoneurium
- (b) perineurium
- (c) epineurium
- (d) neurilemma

17. A large artery is characterised by the presence of

- (a) a well developed internal elastic lamina
- (b) elastic fibres in tunica media
- (c) smooth muscle fibres in tunica adventitia
- (d) mesothelial lining

18. Atherosclerosis in artery is due to

- (a) thickening of tunica intima
- (b) accumulation of lipid in myointimal cells
- (c) calcification of tunica media
- (d) all of the above

19. Cortex of the kidney contains the following structures

- (a) proximal convoluted tubule (PCT)
- (b) distal convoluted tubule (DCT)
- (c) renal corpuscle
- (d) thin segment of loop of Henle

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20. The epithelium lining the ductus epididymis is

- (a) simple columnar
- (b) transitional
- (c) stratified columnar
- (d) pseudostratified columnar

SECTION B [40 marks]

Answer all questions on separate answer sheets provided

1. Write short note on the following

- (a) Structure of oesophagus
- (b) Structure of duodenum
- (c) Structure of Appendix
- (d) Seminiferous tubules

SECTION C: [75 marks]

Answer any 3 questions from this section on separate answer sheets provided

- 1)** Give a detailed overview on histology of urinary bladder [25]
- 2)** Give an overview histology of Prostate [25]
- 3)** Discuss the histology of Cervix [25]
- 4)** Describe the histology of Pituitary Gland [25]
- 5)** Give an overview on histology of trachea and add notes on asthma [25]

END