

CANDIDATE NUMBER.....



AFRICA
UNIVERSITY
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“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

MLS1103: HUMAN ANATOMY

END OF SEMESTER EXAMINATIONS

NOVEMBER 2025

LECTURER: PROF 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 **4** 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 the correct response using a T for TRUE or F for FALSE for each statement in all the questions
- Each question carries 2 marks

Question1: These terms mean nearer the attached end of a limb

- a distal.
- b lateral.
- c medial.
- d proximal.

Question 2: Concern the Hair:

- a is produced by the dermal root sheath.
- b consists of living keratinized epithelial cells.
- c is colored by melanin.
- d contains mostly soft keratin.

Question3: These bones contain a paranasal sinus

- a ethmoid
- b sphenoid
- c frontal
- d temporal

Question 4: These joints is /are the most movable

- a sutures
- b syndesmoses
- c symphyses
- d synovial

Question 5: These joints contain periodontal ligaments

- a sutures
- b syndesmoses
- c symphyses
- d synovial

Question 6: These are major functional characteristic of muscle

- a contractility
- b elasticity

- c excitability
- d d. extensibility

Question 7: The connective tissue sheath that surrounds a muscle fasciculus is/are the

- a perimysium.
- b endomysium.
- c epimysium.
- d hypomysium.

Question 8: The pelvic cavity contains the following

- a kidneys.
- b spleen.
- c liver.
- d stomach.

Question 9: The lungs are

- a. part of the mediastinum.
- b. surrounded by the pericardial cavity.
- c. found within the thoracic cavity.
- d. separated from each other by the diaphragm.

Question 10: These areas of the body contain thick skin

- a. back of the hand
- d. bridge of the nose
- b. abdomen
- c. over the shin

Question 11: Transverse foramina are found in

- a. cervical vertebrae.
- c. lumbar vertebrae.
- b. thoracic vertebrae.
- d. the sacrum.

Question 12: The distal medial process of the humerus to which the ulna joins are:

- a. epicondyle.
- c. malleolus.
- b. deltoid tuberosity.
- d. capitulum

Question 13: When comparing a male pelvis with a female pelvis, which of these statements are true?

- a. The pelvic inlet in males is larger and more circular.
- b. The subpubic angle in females is less than 90 degrees.

- c. The ischial spines in males are closer together.
- d. The sacrum in males is broader and less curved

Question 14: The cortex of the kidney contains the

- a. hilus.
- b. glomeruli.
- c. perirenal fat.
- d. renal pyramids.

Question 15: The parietal pleura

- a. covers the surface of the lung.
- b. covers the inner surface of the thoracic cavity.
- c. is the connective tissue partition that divides the thoracic cavity into right and left pleural cavities.
- d. covers the inner surface of the alveoli.

Question 16: The fibrous pericardium

- a. is in contact with the heart.
- b. is a serous membrane.
- c. is also known as the epicardium.
- d. forms the outer layer of the pericardial sac.

Question 17: These structures returns blood to the right atrium

- a. coronary sinus
- d. both b and c
- b. inferior vena cava
- c. superior vena cava

Question 18: The valve located between the right atrium and the right ventricle is the

- a. aortic semilunar valve.
- c. tricuspid valve.
- b. pulmonary semilunar valve.
- d. bicuspid (mitral) valve.

Question 19: The papillary muscles

- a. are attached to chordae tendineae.
- b. are found in the atria.
- c. contract to close the foramen ovale.
- d. are attached to the semilunar valves.

Question 20: All the listed below are part of the enteric nervous system

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- a. Autonomic nervous system motor neurons
- b. neurons located only in the digestive tract
- c. sensory neurons
- d. somatic neurons

SECTION B: [20 MARKS]

Answer all four questions on separate answer sheets provided

Write short notes on the following

- 1) Write short essay on fibrous joints [5 marks]
- 2) Write short note on anatomy of thyroid gland [5 marks]
- 3) Describe the Cross section of spinal cord [5 marks]
- 4) Write Short note on anatomy of stomach [5 marks]

SECTION C: [75 marks]

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

- 1) Describe the anatomy and conducting system of the heart [25 marks]
- 2) Discuss the anatomical structure of the kidney [25 marks]
- 3) Describe the structure of testes [25 marks]
- 4) Give a detailed account of anatomy of cervical Vertebrae [25 marks]
- 5) Describe the anatomical structure of the ovary [25 marks]

END