



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF HEALTH SCIENCES**

**UNIVERSITY EXAMINATION FOR TVET DIPLOMA IN COMMUNITY HEALTH
AND DEVELOPMENT**

1ST YEAR 2ND SEMESTER 2023/2024 ACADEMIC YEAR

MAIN CAMPUS

COURSE CODE: HDC 2124

COURSE TITLE: HUMAN ANATOMY AND PHYSIOLOGY

EXAM VENUE: STREAM: (TVET Dip Comm Health & Dev)

DATE: EXAM SESSION:

TIME: 2.00 HOURS

Instructions:

- 1. Answer all the questions in Section A and ANY other 2 questions in Section B.**
- 2. Candidates are advised not to write on the question paper.**
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room.**

SECTION A: MCQS. WRITE THE ANSWERS IN YOUR BOOKLET.

1) Which of the following terms describes the body's ability to maintain its normal state?

- (A) Anabolism
- (B) Catabolism
- (C) Tolerance
- (D) Homeostasis
- (E) Metabolism

2) Which of the following best describes the human body's defense mechanism against environmental bacteria?

- (A) Hair in the nose
- (B) Mucous membranes
- (C) Osteoblasts
- (D) Saliva
- (E) Tears

3) Which cells in the blood do not have a nucleus?

- (A) Lymphocyte
- (B) Monocyte
- (C) Erythrocyte
- (D) Basophil
- (E) Neutrophil

4) Which of the following is flexible connective tissue that is attached to bones at the joints?

- (A) Adipose
- (B) Cartilage
- (C) Epithelial
- (D) Muscle
- (E) Nerve

5) Which of the following allows air to pass into the lungs?

- (A) Aorta
- (B) Esophagus
- (C) Heart
- (D) Pancreas
- (E) Trachea

6) Which of the following is the body cavity that contains the pituitary gland?

- (A) Abdominal
- (B) Cranial
- (C) Pleural
- (D) Spinal
- (E) Thoracic

7) Which of the following closes and seals off the lower airway during swallowing?

- (A) Alveoli
- (B) Epiglottis
- (C) Larynx

- (D) Uvula
- (E) Vocal cords

8) Which of the following is located beneath the diaphragm in the left upper quadrant of the abdominal cavity?

- (A) Appendix
- (B) Duodenum
- (C) Gallbladder
- (D) Pancreas
- (E) Spleen

9) Which of the following anatomical regions of abdomen lies just distal to the sternum?

- (A) Epigastric
- (B) Hypochondriac
- (C) Hypogastric
- (D) Lumbar
- (E) Umbilical

10) Which of the following cavities are separated by the diaphragm?

- (A) Abdominal and pelvic
- (B) Cranial and spinal
- (C) Dorsal and ventral
- (D) Pericardial and pleural
- (E) Thoracic and abdominal

11) Which of the following terms describes the motion of bending the forearm toward the body?

- (A) Abduction
- (B) Eversion
- (C) Flexion
- (D) Pronation
- (E) Supination

12) In which of the following positions does a patient lie face down?

- (A) Dorsal
- (B) Erect
- (C) Lateral
- (D) Prone
- (E) Supine

13) If the foot is abducted, it is moved in which direction?

- (A) Inward
- (B) Outward
- (C) Upward
- (D) Downward

14) The anatomic location of the spinal canal is

- (A) caudal
- (B) dorsal
- (C) frontal

- (D) transverse
- (E) ventral

15) Which of the following is a structural, fibrous protein found in the dermis?

- (A) Collagen
- (B) Heparin
- (C) Lipocyte
- (D) Melanin
- (E) Sebum

16) A patient has a fracture in which the radius is bent but not displaced, and the skin is intact. This type of fracture is known as which of the following?

- (A) Closed, greenstick
- (B) Complex, comminuted
- (C) Compound, transverse
- (D) Open, spiral
- (E) Simple, pathologic

17) Which of the following is the large bone found superior to the patella and inferior to the ischium?

- (A) Calcaneus
- (B) Femur
- (C) Symphysis pubis
- (D) Tibia
- (E) Ulna

18) The physician directs the medical assistant to complete a request form for an X-ray study of the fibula. The procedure will be performed on which of the following structures?

- (A) Heel
- (B) Lower leg

19) Which of the following best describes the human body's defense mechanism against environmental bacteria?

- (A) Hair in the nose
- (B) Mucous membranes
- (C) Osteoblasts
- (D) Saliva
- (E) Tears

20) Which cells in the blood do not have a nucleus?

- (A) Lymphocyte
- (B) Monocyte
- (C) Erythrocyte
- (D) Basophil
- (E) Neutrophil

SECTION B: ANSWER ANY TWO QUESTIONS

1. Describe what is meant by hemiplegia. (20 marks)
2. Describe the structure and function of skeletal system. (20 marks)
3. Describe the structure of the human skin. (20 marks)