

MURANG'A UNIVERSITY OF TECHNOLOGY SCHOOL OF PURE, APPLIED AND HEALTH SCIENCES

DEPARTMENT OF HEALTH SCIENCES

UNIVERSITY ORDINARY EXAMINATION

2023/2024 ACADEMIC YEAR

FIRST YEAR SECOND SEMESTER EXAMINATION FOR BACHELOR

OF SCIENCE IN MEDICAL LABORATORY SCIENCE

HNB 121 – ANATOMY II

DURATION: 2 HOURS

INSTRUCTIONS TO CANDIDATES:

- 1. Answer question ONE any other two questions.
- 2. Mobile phones are not allowed in the examination room.
- 3. You are not allowed to write on this examination question paper.

- SECTION A (20 MARKS): MULTIPLE CHOICE QUESTIONS 1. The arteries that branch off the abdominal aorta to serve the digest organs are called A. Splanchinic circulation B. Portal circulation C. Mesentery circulation D. Digestive circulation 2. What forms the roof of the mouth A. Lips B. Oral vestibules C. Labial frenulum D. Palate 3. The PH of saliva is A. 5.6 B. 6.25 C. 6.75 D. 7.75
 - 4. Hydrochloric acid is secreted by
 - A. Mucous neck cells
 - B. Parietal cells
 - C. Chief cells
 - D. Enteroendocrine cells
 - 5. Which of the following is a branch of brachial plexus?
 - A. Auxiliary nerve
 - B. Supra clavicular nerve
 - C. Greater auricular nerve
 - D. Lesser occipital nerve
 - 6. Which of the following is not a function of the hypothalamus?
 - A. Regulation of water balance
 - B. Regulation of sleep and wakefulness
 - C. Control of endocrine system
 - D. Control of digestive system
 - 7. The soft mater that covers the brain is

C. Autocrine
D. Paracrine
14. Which hormone is secreted by neurohypophysis
A. Oxytocin
B. Melanin
C. Melanocyte stimulating hormone
D. Luteinizing hormone
15. Inner thinner layer of the skin is called
A. Epidermis
B. Dermis
C. Subcutaneous layer
D. Hypodermis layer
16. Melatonin is produced by which gland
A. Thyroid gland
B. Adrenal gland
C. Parathyroid gland
D. Pineal gland
17. Odoriferous glands are mainly found on the
A. Axilla, feet
B. Axilla, palms
C. Axilla and genital areas
D. Genital areas and gluteal region
18. The esophagus is lined by which type of tissues
A. Keratinized epithelium
B. Squamous epithelium
C. Cuboidal epithelium
D. Columnae epithelium
19. Which part of the eye control the amount of light entering the eyes
A. Iris
B. Lens
C. Retina
D. Choroid

20. The processes that carry impulses towards the cell body are called A. Dendrites B. Axons C. Nerve cells D. Schwan cells **SECTION B (50 MARKS): SHORT ANSWER QUESTIONS** a) Draw a well labelled diagram of the kidney. (5 marks) b) Explain five (5) sphincters of the gastro intestinal tract. (5 marks) c) State the layers of the adrenal cortex and give the hormones produced in each layer. (5 marks) d) State five functions of the skin (5 marks) e) State five cells of nervous system. (5 marks) Explain five cranial nerves giving the functions of each. (5 marks) Highlight five functions of the liver. (5 marks) State hormones that are involved in digestive process of the digestive system. (5 marks) Using a diagram, demonstrate the flow of bile. (5 marks) i) State five layers that make up the epidermis of the skin. (5 marks) SECTION C (30 MARKS): LONG ANSWER QUESTIONS 1. Describe the five parts of the brain giving functions of each. (15 marks)

2. a) Explain five muscles of the pelvic floor and their functions.

b) Discuss five hormones involved in reproductive system.

(10 marks)

(5 marks)