



(University of Choice)

**MASINDE MULIRO UNIVERSITY OF
SCIENCE AND TECHNOLOGY
(MMUST)**

UNIVERSITY REGULAR EXAMS

SCHOOL OF NURSING MIDWIFERY AND PARAMEDICAL SCIENCES

UNIVERSITY EXAMINATIONS

**2023/2024 ACADEMIC YEAR
SECOND SEMESTER**

**FOR THE DEGREE OF BACHELOR OF SCIENCE IN
NURSING
FIRST YEAR FIRST TRIMESTER DL**

COURSE CODE: NCD 121

**COURSE TITLE: HUMAN ANATOMY III: SYSTEMIC
ANATOMY**

DATE: MONDAY 08TH APRIL 2024

TIME: 3PM-6PM

INSTRUCTIONS TO CANDIDATES

All questions are compulsory

DURATION: 3 Hours

MMUST observes ZERO tolerance to examination cheating

This paper consists of 4 (FOUR) printed pages. Please turn over.

SECTION A- Multiple Choice Questions (MCQs)*Answer all the questions in this section= 20 Marks*

1. The neuron cell is made up of which of the following parts?
 - a) Axon
 - b) Dendrite
 - c) Nucleus
 - d) All of the Above
2. A cranial nerve with the highest number of branches
 - a) Facial nerve
 - b) Trigeminal nerve
 - c) Vagus nerve
 - d) Both (b) and (c)
3. Neurons come in which different type(s)?
 - a) Sensory
 - b) Motor
 - c) Skeletal
 - d) A and B
4. Which of the following is one of the parts of the hindbrain?
 - a) hypothalamus
 - b) cerebellum
 - c) corpus callosum
 - d) spinal cord
5. Afferent neurons carry nerve impulses from
 - a) CNS to muscles
 - b) CNS to receptors
 - c) receptors to CNS
 - d) effector organs to CNS
6. The reason why the right kidney is slightly lower than the left is
 - a) the left kidney is bigger than right
 - b) considerable space occupied by the heart
 - c) considerable space occupied by the liver on the right side
 - d) the right kidney is bigger than the left
7. Kidneys in the human body extend from this level
 - a) 5th thoracic vertebrae to 3rd lumbar vertebrae
 - b) 8th thoracic vertebrae to 12th lumbar vertebrae
 - c) 10th thoracic vertebrae to 5th lumbar vertebrae
 - d) 12th thoracic vertebrae to 3rd lumbar vertebrae
8. Which structure carries urine from the kidneys to the bladder?
 - a) connector.
 - b) Nephron.
 - c) Ureter.
 - d) Urethra
9. This artery passes blood to the kidney
 - a) common iliac
 - b) cystic
 - c) renal
 - d) coeliac

10. Which one of the following choices represent the internal organs of the female reproductive system:
- The uterus, the bladder, vagina and the appendix
 - The vagina, the cervix, the uterus, the fallopian tubes and the ovaries
 - The cervix, the uterus, the fallopian tubes, ureter and the ovaries
 - The vagina, the cervix, the bladder, the uterus, the fallopian tubes and the ovaries
11. The Bartholin's glands are:
- located in the vagina wall
 - A 2 pair of egg-shaped structure
 - A pair of pea sized structure
 - Located in the around the mons pubis.
12. Another name for Bulbourethral gland is
- Meibomian gland
 - Prostate gland
 - Perineal gland
 - Cowper's gland
13. The cells of the testes secrete testosterone are called;
- Sertoli cells
 - cells of germinal epithelium
 - Cells of Leydig or interstitial cells
 - secondary spermatocyte
14. In the striated muscles, the functional unit of contractile system is
- Z band
 - cross bridges
 - sarcomere
 - myofibril
15. Compared to an artery, the wall of a vein differs in which of the following way:
- It consists of three coats called tunics.
 - It is lined by a thin layer of endothelium.
 - It contains smooth muscle.
 - The middle tunic is thin.
16. The fluid filled sac that surrounds the heart is called the:
- (a) Myocardium.
 - (b) Pericardium.
 - (c) Ventricle.
 - (d) Septum.
17. The valve between the left ventricle and the blood vessel leaving the left ventricle is the:
- a) Bicuspid valve.
 - b) Tricuspid valve.
 - c) Pulmonary semilunar valve.
 - d) Aortic semilunar valve.

True / false statements

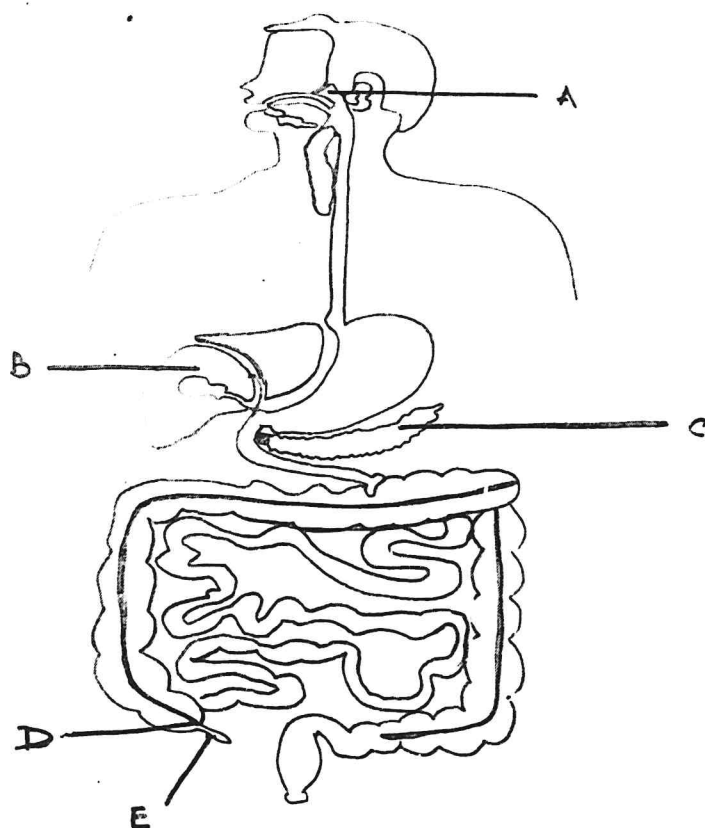
18. The muscles of hands and legs are striated and voluntary
- a) True
 - b) False
19. Muscles located in the reproductive tracts are unstriated and involuntary
- a) True
 - b) False
20. The muscles located in the inner walls of alimentary canal are striated and involuntary
- a) True

b) False

SECTION B- Short Answer Questions (SAQs)

Answer all the questions in this section= 40 Marks

1. Draw a well labelled diagram of the following body structures
 - (a) Ear (9 Marks)
 - (b) A typical vertebra (5 Marks)
2. Name the parts labelled 'A to E, in the diagram below (5 Marks)



3. (a) List any (six) 6 contents of the lymph (3 Marks)
- (b) Draw a typical structure of a lymph node (6 marks)
4. Describe using an example in each class, the classes of human joints (12 Marks)

SECTION C- Long Answer Questions (LAQs)

Answer all the questions in this section=40 Marks

1. Using illustrations or charts where applicable, describe the contents and organization of a human respiratory system (20 Marks).
2. Using diagram or a sketch, describe the anatomy of the endocrine system (20 Marks)

END