



(University of Choice)
**MASINDE MULIRO UNIVERSITY OF
SCIENCE AND TECHNOLOGY
(MMUST)
MAIN EXAMS**

SCHOOL OF NURSING MIDWIFERY AND PARAMEDICAL SCIENCES

**UNIVERSITY EXAMINATIONS
2021/2022 ACADEMIC YEAR
FIRST YEAR SECOND trimester -DL**

FOR THE DEGREE OF BACHELOR OF SCIENCE IN NURSING

COURSE CODE: NCD 121

COURSE TITLE: HUMAN ANATOMY III: SYSTEMIC ANATOMY

DATE: 20TH WEDNESDAY APRIL, 2022

Time: 8AM TO 11AM 3HRS

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

Choose the most appropriate answer

1. What part of the blood vessel gives strength and contractility?
 - (a) Lumen
 - (b) Tunica intima
 - (c) Tunica media
 - (d) Tunica adventitia
2. What is the middle layer of a blood vessel?
 - (a) Lumen
 - (b) Tunica intima
 - (c) Tunica media
 - (d) Tunics adventitia
3. Blood from the intestines travels to the liver via the:
 - (a) hepatic artery
 - (b) mesenteric artery
 - (c) hepatic vein
 - (d) hepatic portal vein
4. Most of the cardiac muscle of the heart is found in the:
 - (a) endocardium
 - (b) epicardium
 - (c) myocardium
 - (d) pericardium
5. The head of the sixth rib articulates with
 - (a) The inferior articular facet of T5 and superior articular facet of T6.
 - (b) The inferior articular demifacet of T5 and superior articular facet of T6.
 - (c) The inferior articular demifacet of T5 and the superior articular demifacet of T6.
 - (d) The superior and inferior demifacets of T6.
6. The thin membrane that connects your tongue to the bottom of your mouth is referred to as;
 - (a) Septum
 - (b) Barrier reef
 - (c) Frenulum
 - (d) Lingual wall
7. Which layer of GI tract forms the innermost lining and continuously secretes mucus?
 - (a) serosa
 - (b) muscularis externa
 - (c) muscularis mucosa
 - (d) mucosa
8. Which structure helps to prevent a bolus of food from entering the trachea during deglutition (swallowing)?
 - (a) collagen
 - (b) cardiac sphincter
 - (c) larynx
 - (d) epiglottis
9. The muscular tube that extends from the mouth to the anus is called:
 - (a) the gullet
 - (b) the intestine
 - (c) the colon
 - (d) the alimentary canal
10. The vulva's blood supply comes from:

- (a) Two external pudendal arteries
 - (b) One internal pudendal vein
 - (c) Two internal pudendal arteries
 - (d) Two external pudendal veins
11. The following are the internal organs of the female reproductive system:
- (a) The uterus, the bladder, vagina and the appendix
 - (b) The vagina, the cervix, the uterus, the fallopian tubes and the ovaries
 - (c) The cervix, the uterus, the fallopian tubes and the ovaries
 - (d) The vagina, the cervix, the bladder, the uterus, the fallopian tubes and the ovaries
12. The elastic tissue which connects the cauda epididymis to the scrotal sac is
- (a) Caput epididymis
 - (b) Scrotal ligament
 - (c) Gubernaculum
 - (d) Tendinous cord
13. These cells of the testes secrete testosterone are;
- (a) Sertoli cells
 - (b) cells of germinal epithelium
 - (c) Cells of Leydig or interstitial cells
 - (d) secondary spermatocytes
14. The connective tissue cord extending between the testis and abdominal wall is known as;
- (a) mesenteric cord
 - (b) gubernaculum
 - (c) testis cord
 - (d) spermatic cord
15. The two main divisions of the central nervous system are:
- (a) nerves and neurons
 - (b) cerebral cortex and cerebrospinal fluid
 - (c) brain and spinal cord
 - (d) spinal cord and nerves
16. The hypothalamus and thalamus are in the
- (a) limbic system.
 - (b) diencephalon.
 - (c) cerebellum.
 - (d) Cerebrum
17. How many lobes are in each cerebral hemisphere?
- (a) two
 - (b) three
 - (c) four
 - (d) five
18. How many pairs of cranial nerves originate within the brain?
- (a) two
 - (b) four
 - (c) eight
 - (d) twelve
19. The brain stem does NOT include the:
- (a) diencephalons
 - (b) midbrain
 - (c) medulla oblongata
 - (d) pons

20. The bony labyrinth has three regions namely;
- The vestibule, the semilunar canals, and the cochlea.
 - The pinna, the semicircular canals, and the cochlea.
 - The vestibule, the semicircular canals, and the cochlea.
 - The vestibule, the semicircular canals, and the patella.

SECTION B- Short Answer Questions (SAQs) Answer all the questions in this section= 40 Marks

- Using illustrations/diagrams, describe the following parts of human anatomy
 - The lymph node (5 Marks)
 - Microscopic anatomy of long bone (6 marks)
 - The endocrine glands
 - Their location (10 Marks)
 - Their hormonal secretions (10 Marks)
- Using the microscopic anatomy of the body muscles pictures below; name, locate and describe their structural differences (9 Marks)

Figure i

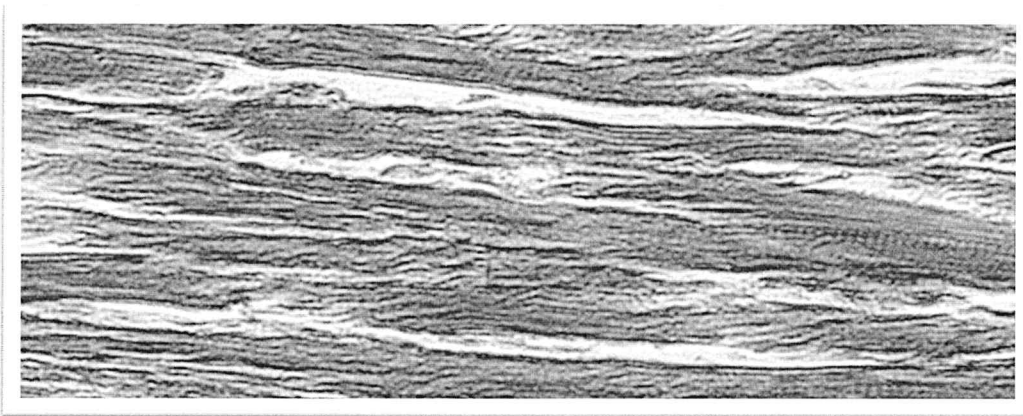


Figure ii



Figure iii



SECTION C- Long Answer Questions (LAQs) Answer all the questions in this section=40 Marks

1. Discuss the anatomy of the upper and lower respiratory system, using diagrams and illustrations where possible (20 Marks)
2. Describe the articular or the joints system of the body, giving at least two examples each class where applicable (20 Marks)