



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

MAIN CAMPUS

**UNIVERSITY EXAMINATIONS
2021/2022 ACADEMIC YEAR**

FIRST YEAR SECOND TRIMESTER EXAMINATION

**FOR THE DEGREE
OF**

- 1. BACHELOR OF SCIENCE IN CLINICAL MEDICINE**
- 2. BACHELOR OF SCIENCE IN HEALTH PROFESSIONS EDUCATION**
- 3. BACHELOR OF SCIENCE IN PHYSIOTHERAPY.**

COURSE CODE: HCA 101/NUR 106/BSP 121/HPT123.

COURSE TITLE: HUMAN ANATOMY TWO

DATE: MONDAY 25TH APRIL 2022

TIME: 8:00-11:00 AM

INSTRUCTIONS TO CANDIDATES

- 1. READ THE INSTRUCTIONS AT THE BEGIN OF EACH SECTION**
- 2. THIS PAPER CONSIST OF:**
 - Section A: Multiple Choice Questions (MCQ) 20 Marks.
 - Section B: Short Answer Questions (SAQ) 40 Marks.
 - Section C: Long Answer Question (LAQ) 40 Marks
- 3. NO MOBILE PHONE IS ALLOWED IN THE EXAMINATION ROOM**

DURATION: 3 Hours

MMUST observes ZERO tolerance to examination cheating

This Paper Consists of 5 Printed Pages. Please Turn Over.

SECTION A: MCQ (CHOOSE ONE BEST ANSWER) (20 Marks)

1. The following are structures which can be located in the superior mediastinum except?

 - A. Thymus
 - B. brachiocephalic veins
 - C. Oesophagus
 - D. inferior venacava
 - E. Phrenic and vagus nerves
2. Which of the following arteries supply the anastomoses formed along the lesser curvature of the stomach?

 - A. Right and left gastro-omental
 - B. Right and left gastric arteries
 - C. Right and left gastroepiploic arteries.
 - D. Long and Short gastric arteries
 - E. Anterior and posterior gastric arteries.
3. Which of the following is not true about the left ventricle?

 - A. Outflow is via the aorta which lies anterior to the pulmonary trunk
 - B. Forms the apex of the heart
 - C. Has the thickest myocardium
 - D. Inferiorly it has the trabeculae carnae, papillary muscle and chordae tendinae
 - E. Interventricular septum separates the left from right ventricle.
4. Which of the following is an Interperitoneal viscera?

 - A. stomach
 - B. caecum
 - C. liver
 - D. spleen
 - E. vermiform appendix
5. The following are muscles attach to the perineal central tendon except?

 - A. Bulbocavernosus
 - B. Superficial and Deep transverse perineum muscles
 - C. Levator ani
 - D. Sphincter ani externus
 - E. coccygeous
6. The anterior surface of the left kidney is related to all the following except:

 - A. Left adrenal gland
 - B. Pancreas
 - C. Duodenum
 - D. Stomach
 - E. Spleen
7. Which of the following is not true about the second part of the duodenum?

 - A. Its posterior surface is crossed by the transverse colon and medial to it is the head of the pancreas.

- B. Contains the major duodenal papilla, which is the common entrance for the bile and pancreatic ducts
- C. Contain the minor duodenal papilla, which is the entrance for the accessory pancreatic duct
- D. It is just to the right of midline and extends from the neck of the gallbladder to the lower border of vertebra L3.
- E. Contains the junction of the foregut and the midgut just below the major duodenal papilla.

8. The following are true concerning the corpus spongiosum except?

- A. Continuation of bulb of penis
- B. Surrounded by tunica albuginea
- C. Terminal part expanded to form glans penis
- D. Surrounded by fibrous sheath
- E. Traversed by urethra throughout length

9. The following are features you will find on the ileum compared to the jejunum except?

- A. thinner walls
- B. shorter vasa recta
- C. more mesenteric fat
- D. wider lumen
- E. more arterial arcades

10. Which of the following is a posterior relation of the rectum?

- A. Superior rectal artery
- B. Base of urinary bladder
- C. Seminal vesicles
- D. Posterior wall of vagina
- E. Para rectal fossa

11. The following organs are supplied by the coeliac trunk except the:

- A. Duodenum
- B. Liver
- C. Pancreas
- D. Spleen
- E. Suprarenal gland

12. During vasectomy, which of the following structures is ligated or cut?

- A. Fallopian Tube
- B. Epididymis
- C. Spermatic Cord
- D. Vas Deferens
- E. Seminiferous Tubules

13. Which of the following structures enters the deep inguinal ring?

- A. Round ligament of the uterus
- B. Uterine tubes.
- C. Suspensory ligament of the ovary
- D. Mesosalpinx
- E. Mesovarium

14. The following structures are found in the right iliac fossa except:

- A. Appendix
- B. Right ovary
- C. Base of urinary bladder
- D. Caecum
- E. Ileo-caecal junction

15. The following are atypical ribs except?

- A. 1
- B. 3
- C. 8
- D. 11
- E. 12

16. Mc Burney's point :-

- A. Is found at the sternal angle of Louis.
- B. Is half way the line from the umbilicus to the anterior superior iliac spine.
- C. Is half way the line from the anterior superior iliac spine to the pubic symphysis.
- D. Is a third way on an imaginary line from the anterior superior iliac spine and the umbilicus.
- E. None of the above

17. The following are contents of the Broad Ligament of the uterus except?

- A. Fallopian tube
- B. Round ligament
- C. Uterine vessels
- D. Ovarian ligament
- E. Ureter

18. Two-layered fold of peritoneum that extends from stomach to adjacent organs is called

- A. Omentum
- B. Viscera
- C. Perimetrium
- D. Hypodermis
- E. Jejunum

19. Muscle fibers run upward and backward from the subcostal groove of the rib above to the upper boarder of the rib below:-

- A. Internal intercostal
- B. External intercostal
- C. Pectoralis minor
- D. Innermost intercostal
- E. Transverse abdominis

20. Which of the following is a major opening of the diaphragm located at the level of T10?

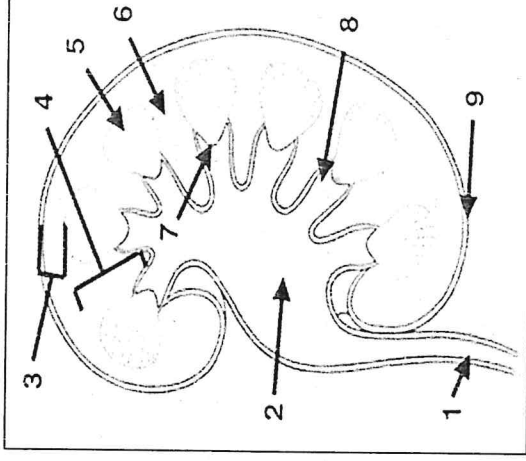
- A. Caval
- B. Oesophageal
- C. Foramen of Morgani
- D. Aortic
- E. Left Crus

SECTION B: ANSWER ALL QUESTIONS (40 marks)

1. Explain five differences between the thoracic and cervical vertebrae bone? (10mks)
2. Explain some of the external features of the female genitalia? (10 mks)
3. a) List the layers of the anterior abdominal wall from superficial to deep (5mks)
b) Explain the formation of the rectus sheath? (5 mks)
4. a) Enumerate five Differences between the right and left lung (5 mks)
b) List 10 structures that form the bed of the stomach (5mks)

SECTION C: ANSWER ANY TWO QUESTIONS (40 MARKS)

1. A. Identify and label the diagram below (10 Marks)



- B. Enumerate five differences between upper and lower portions of the anal canal? (10mks)
2. Discuss the blood flow within the heart and classify the branches of the abdominal aorta? (20mks)

END