



# MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY

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UNIVERSITY EXAMINATIONS 2023/2024

FIRST YEAR SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR  
OF SCIENCE IN NURSING

**NND/NUU 3121- HUMAN ANATOMY II**

**DATE: APRIL 2024**

**TIME: 3 HOURS**

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**INSTRUCTIONS:** *All questions are compulsory*

Ensure that all your answers are properly numbered

Part 1 Multiple Choice Questions (MCQs): Write the correct answer on the space provided in the answer booklet. Each MCQ is one mark.

Part 11: Short Answer Questions-Answer questions following each other on the answer booklet

Part 111: Long Answer Questions-Answer the questions on the answer booklet.

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## **SECTION A: Multiple Choice Questions (20 MARKS)**

1. Which of the erectile tissues of the penis houses the urethra?
  - A. Corpus cavernosum
  - B. Corpus spongiosum
  - C. Corpus fascia
  - D. Crura of the penis
2. All blood vessels supplying the penis are derived from the
  - A. External iliac artery
  - B. Femoral artery



- C. Internal iliac artery
  - D. Common iliac artery
3. In man, Cryptorchidism is the condition when
- A. Testes do not descent into the scrotum
  - B. There are two testes in each scrotum
  - C. Testis degenerates in the scrotum
  - D. Testis enlarges in the scrotum
4. The part of the male genital duct that acts as a reservoir for sperms is the
- A. Epididymis
  - B. Ampulla of vas deferens
  - C. Vas deferens
  - D. Ejaculatory duct
5. The cell of the testis responsible for the production of testosterone is known as
- A. Sertolic sell
  - B. Leydig cell
  - C. spermatids.
  - D. Primary spermatocytes
6. The visceral layer of the glomerular capsule is made up of
- A. Podocytes.
  - B. fenestrated capillaries
  - C. simple squamous epithelium
  - D. extraglomerular mensangial cells
7. The epithelial lining of the ureter is made up of
- A. Simple squamous epithelium
  - B. Stratified keratinized epithelium
  - C. Stratified non keratinized epithelium
  - D. Transitional epithelium
8. What does the pancreatic duct directly join to?
- A. Jejunum.
  - B. Liver.
  - C. Ileum.
  - D. Duodenum.
9. Which part of the GIT does the appendix come off of?

- A. Transverse colon.
  - B. Descending colon.
  - C. Ascending colon.
  - D. Cecum
10. The Kupffer cells are phagocytic cells found in the:
- A. Gallbladder.
  - B. Pancreas.
  - C. Intestine.
  - D. Liver.
11. The part of the stomach that is always filled with gases and supplied by the short gastric arteries is the \_\_\_\_\_
- A. Body
  - B. Fundus.
  - C. Pylorus
  - D. Greater curvature
12. The gland that is located at the base of the throat, just inferior to the laryngeal prominence (Adam's apple) is known as?
- A. Pituitary.
  - B. Pineal gland.
  - C. Hypothalamus.
  - D. Thyroid
13. Which of the following is not a content of the left hypochondriac region?
- A. Spleen
  - B. Ascending colon
  - C. Descending colon
  - D. Left adrenal gland
14. The blood supply to the tongue is derived from the lingual artery which is branch of \_\_\_\_\_
- A. External carotid artery
  - A. Internal carotid artery
  - B. Common carotid artery
  - C. Facial artery
15. Esophageal glands are located in the \_\_\_\_\_ layer of the esophagus



- A. Mucosa
  - B. Submucosa
  - C. Serosa
  - D. Muscularis
16. Which stratum of the epidermis is responsible for new cell production?
- A. Corneum
  - B. Basale
  - C. Granulosum
  - D. Spinosum
17. The part of the brain from which the spinal cord originates is:
- A. Pon
  - B. Medulla oblongata
  - C. Mid brain
  - D. Cerebellum
18. The covering of the brain that is located directly under the calvaria is the
- A. Dura matter
  - B. Arachinoid matter
  - C. Pia matter
  - D. Periosteum
19. The region of the eye, where the optic nerve passes out of the retina, is called the
- A. Fovea
  - B. Iris
  - C. Blind spot
  - D. Optic chaisma
20. The gland associated with the perception of taste is known as the
- A. Bowman's gland
  - B. Von Ebner's gland
  - C. Ceruminous gland
  - D. Pineal gland

## SECTION B: SHORT ANSWER QUESTIONS (40 MARKS)

1. Describe the microscopic organization of the thyroid gland. (5 marks)
2. State six differences between the thick skin and thin skin. (6 marks)
3. a) Describe the vascular layers of the eye (3 marks)  
b) State the function of each part of the vascular layer. (3 marks)
4. Enumerate the relations of the urinary bladder in females. (6 marks)
5. a) Describe the microscopic features of the olfactory epithelium (3 marks)  
b) State the function of each component of the olfactory epithelium. (3 marks)
6. With the aid of a diagram describe the lobes and functional areas of the brain. (6marks)
7. Describe the gross anatomic features of the epididymis. (5 marks)

## SECTION C: LONG ANSWER QUESTIONS (40 MARKS)

1. Concerning the nine region organizational pattern of the abdomen.
  - i. Describe the planes and name the nine-region organizational pattern. (11 marks)
  - ii. State two organs in located in each of the nine regions mentioned above. (9 marks)
2. Concerning the anatomy of the uterus describe the following.
  - i. The histological layers of the uterus. (6 marks)
  - ii. The gross anatomic position and relations of the uterus. (8 marks)
  - iii. The divisions of the uterus (6marks)

