

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

**FIRST YEAR EXAMINATION FOR THE AWARD OF DEGREE
OF BACHELOR OF SCIENCE IN NURSING**

NURU 116: HUMAN ANATOMY III

STREAMS: Bsc (NURU) (Y1T2)

TIME: 2 HOURS

DAY/DATE: FRIDAY 09/7/2021

11.30 A.M. – 1.30 P.M.

INSTRUCTIONS TO CANDIDATES

- Do not write anything on the question paper.
- Mobile phones and any other reference materials are **NOT** allowed in the examination room.
- The paper has three (3) Sections. **ALL** the questions are compulsory
- Your answers for Section A (MCQs) should be on the first page of the answer Booklet.
- Number **ALL** your answers and indicate the order of appearance in the space provided in the cover page of the examination answer booklet.

SECTION A: MULTIPLE CHOICE QUESTIONS (20 Marks)

1. The ligament that provides the route of entry of blood vessels and nerves to the ovaries is:
 - a) Mesovarium
 - b) Broad
 - c) Suspensory
 - d) Ovarian
2. Features of a lactating breast include:
 - a) Constricted ducts and blood vessels
 - b) Numerous and open alveoli
 - c) Plentiful connective tissue and adipose
 - d) Squamous alveolar cells with fewer organelles

3. The fallopian tube:
 - a) Has an infundibulum that passes into the uterine wall
 - b) Lacks a lamina propria
 - c) Is lined by simple squamous epithelium
 - d) Has a short narrow thick- walled isthmus
4. Paired laryngeal cartilage that provides attachment to the vocal cords is:
 - a) Arytenoids
 - b) Cricoids
 - c) Cuneiform
 - d) Corniculate
5. Which of the following statement concerning the oro-pharynx is true:
 - a) It is lined with pseudostratified ciliated cuboidal epithelium
 - b) Houses lingual and palatine tonsils
 - c) Opens to the esophagus
 - d) Has opening for the Eustachian tube
6. An anatomic feature associated with the small intestines only is:
 - a) Haustra
 - b) Plicae circularis
 - c) Messner's plexus
 - d) Taenie coli
7. The salivary gland that secretes watery saliva is:
 - a) Sublingual
 - b) Lesser lingual
 - c) Parotid
 - d) Submandibular
8. Accessory digestive organs include:
 - a) Liver, spleen
 - b) Stomach , esophagus
 - c) Salivary glands, stomach
 - d) Liver, teeth

9. The following statement is true about the kidney:
- a) The right kidney is lower than the left one
 - b) The left kidney is bordered by the spleen anteriorly
 - c) It is covered by the visceral peritoneum
 - d) It is anchored to the surrounding tissues by the renal capsule
10. Once urine has been collected by the collecting duct, it passes into the
- a) Papillary duct
 - b) Renal pelvis
 - c) Minor calyx
 - d) Ureter
11. The afferent arteriole branches to form the glomerular capillary network. It is a branch of which artery:
- a) Arcuate
 - b) Interlobular
 - c) Interlobar
 - d) Segmental
12. Muscular arteries include:
- a) Subclavian, carotid
 - b) Renal, subclavian
 - c) Carotid, Iliac
 - d) Femoral, renal
13. The sinusoids:
- a) Has minute intercellular clefts
 - b) Has anchoring filaments
 - c) May lack a basement membrane
 - d) Are associated with the brain and the liver
14. Cranial nerve that innervates the heart is:
- a) Trigeminal
 - b) Vagus
 - c) Accessory
 - d) Glossopharyngeal

15. Primary lymphoid organs:

- a) Lacks a connective tissue capsule
- b) Filters the lymph the same way spleen filters blood
- c) Include thymus and the lymph nodes
- d) Contains maturing T- Lymphocytes

16. Lymphatic capillaries are found in all of the following organs EXCEPT:

- a) Brain
- b) Lungs
- c) Intestines
- d) Liver

17. The most abundant Phagocytic granulocyte is:

- a) Basophil
- b) Monocyte
- c) Neutrophils
- d) Eosinophil

18. Globulins are:

- a) Synthesized by the plasma cells only
- b) More abundant than albumin
- c) Major determinant of colloid osmotic pressure
- d) Involved in transport of substances

19. Components of the peripheral nervous system include:

- a) Cranial nerves, spinal nerves
- b) Brain, cranial nerves
- c) Spinal cord, spinal nerves
- d) Brain, spinal cord

20. Mixed cranial nerves include:

- a) Optic , olfactory
- b) Facial, glossopharyngeal
- c) Oculomotor, trigeminal
- d) Optic, glossopharyngeal

SECTION B: SHORT ANSWER QUESTIONS (35 Marks)

1. State five(5) anatomical features that distinguish the right lung from the left one [5 marks]
2. Describe the structural organization of the wall of colon [6 marks]
3. List four(4) cells of the gastric gland and indicate the function of each [4 marks]
4. Explain the three(3) parts of the renal tubule [6 marks]
5. Describe the histology of the urinary bladder wall [5 marks]
6. Outline the four(4) valves of the heart [4 marks]
7. Enumerate five(5) differences between capillaries and veins [5 marks]

SECTION C: LONG ANSWER QUESTION (15 Marks)

1. The male reproductive system produces, stores and transports the gametes. It also produces hormones that influence these functions.
 - a) Draw a well labeled diagram illustrating the components of the male reproductive system [7 marks]
 - b) Describe the ducts of the male reproductive system [8 marks]
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