

CHUKA



UNIVERSITY

**FIRST YEAR EXAMINATIONS FOR THE
BACHELOR OF SCIENCE (NURSING)**

NURU 116: HUMAN ANATOMY III

STREAMS: Bsc Nursing up-grad. (Y1T2)

TIME: 2 HOURS

DAY/DATE:.....

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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 is 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, glossophayrngeal
- 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