

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

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

NURU 116: HUMAN ANATOMY III

STREAMS: BSC (NURS) YIT3

TIME: 2 HOURS

DAY/DATE: MONDAY 03/12/2018

8.30 AM – 10.30 AM

INSTRUCTIONS:

- **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. Mixed cranial nerves include:
 - a) Trigeminal, oculomotor
 - b) Facial, hypoglossal
 - c) Vestibulocochlear, facial
 - d) Glossopharyngeal, vagus
2. The third ventricle communicates with the fourth through:
 - a) Cerebral aqueduct
 - b) Median aperture
 - c) Interventricular foramen
 - d) Lateral foramen
3. Which of the following is associated with the spermatic cord:
 - a) Epididymis
 - b) Dartos muscle
 - c) Vas deferens
 - d) Rete testis

4. Functions of sertoli cells include:
 - a) Secretion of testosterone
 - b) Nourishing the spermatozoa
 - c) Storage of spermatozoa
 - d) Forming spermatozoa

5. The semilunar valves prevent the backflow of blood into the:
 - a) Atria
 - b) Ventricles
 - c) Lungs
 - d) Aorta

6. The difference between arteries and veins is that arteries:
 - a) Have valves
 - b) Carry oxygenated blood only
 - c) Contain elastic laminae
 - d) Are more numerous

7. Concerning leukocytes:
 - a) May be phagocytic
 - b) They are the most numerous blood cells
 - c) Lack a nucleus
 - d) Arise from the same progenitor cell

8. Secondary lymphatic organs include:
 - a) Thymus, spleen
 - b) Thymus, bone marrow
 - c) Bone marrow, lymph nodes
 - d) Spleen, lymph nodes

9. The inner cortex of the lymph node contains which of the following lymphatic cells:
 - a) T lymphocytes, dendritic cells
 - b) Plasma cells, B lymphocytes
 - c) T lymphocytes, macrophages
 - d) Dendritic cells, neutrophils

10. The peritoneal fold associated with the small intestines is the:
 - a) Greater omentum
 - b) Lesser omentum
 - c) Mesentery
 - d) Mesocolon

11. The muscles that alter the shape and size of the tongue for swallowing include:
 - a) Hypoglossus, genioglossus
 - b) Longitudinalis inferior, transverse linguae
 - c) Transverse linguae, genioglossus

- d) Styloglossus, vericularis linguae
12. The eye contains four different rectus muscles. The one that moves the eye ball laterally is the:
- a) Superior
 - b) Medial
 - c) Anterior
 - d) Lateral
13. The hypothalamic hormone that stimulates the release of prolactin by the anterior pituitary is:
- a) Somatostatin
 - b) Dopamine
 - c) Corticotropin releasing hormone
 - d) Thyrotropin releasing hormone
14. Which of the following hormones is correctly matched with the secreting cell:
- a) Insulin-A cells
 - b) Parathyroid hormone-oxophil cell
 - c) Cholecystokinin-I cells
 - d) Calcitonin-follicular cells
15. Conduction components of the lower respiratory system include:
- a) Nose, trachea
 - b) Pharynx, larynx
 - c) Trachea, terminal bronchioles
 - d) Alveolar sacs, Respiratory bronchiols
16. The lung contains reticular and elastic fibres. These are synthesized by:
- a) Fibroblasts
 - b) Dust cells
 - c) Septal cells
 - d) Type I pneumocytes
17. Concerning the urinary bladder:
- a) It is bean shaped
 - b) Lined by transitional epithelium
 - c) Located in the abdominal cavity
 - d) Contains internal urethral sphincter
18. Which of the following is true concerning intercalated cells:
- a) More abundant in the proximal convoluted tubule
 - b) Under the control of vasopressin
 - c) Involved in acid secretion
 - d) Lack microvilli

19. Interlobular arteries branch into afferent arterioles. They are branches of:

- a) Peritubular capillaries
- b) Segmental arteries
- c) Interlobar arteries
- d) Arcuate arteries

20. Examples of hinge joint include:

- a) Knee, elbow
- b) Hip, shoulder
- c) Knee, wrist
- d) Ankle, wrist

SECTION B: SHORT ANSWER QUESTIONS (35 Marks)

- 1. Describe briefly the three (3) components of the brain stem [6 marks]
- 2. Outline the two (2) types of veins giving two examples of each [5 marks]
- 3. Describe the blood supply to the pituitary gland [6 marks]
- 4. Compare and contrast the anatomical features of right and left lung [6 marks]
- 5. Describe briefly three (3) structures that protect the kidneys [6 marks]
- 6. Describe briefly the histology of the stomach wall [6 marks]

SECTION C: LONG ANSWER QUESTIONS (15 Marks)

- 1. Utilizing a well labelled diagram, describe the components of the female reproductive system [15 marks]
