

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

FIRST YEAR EXAMINATION FOR THE AWARD OF DEGREE
OF BACHELOR OF SCIENCE (NURSING)

NURU 116: HUMAN ANATOMY III

STREAMS: BSC (NURS)UPGRADING

TIME: 2 HOURS

DAY/DATE: WEDNESDAY 06/12/2017

8.30 A.M. – 10.30 A.M.

INSTRUCTIONS:

- Do not write anything on the question paper
- Mobile phones and any other reference material are NOT allowed in the examination room.
- The paper has three (3) sections. Answer ALL questions
- Your answer 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 hormone secreted by cells of the zonafasciculata is:
 - (a) Aldosterone
 - (b) Androgens
 - (c) Cortisol
 - (d) Parathormone
2. The most abundant cell of the endocrine pancreas is:
 - (a) Alpha
 - (b) Beta
 - (c) Delta
 - (d) F cell

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3. The ratio of leukocytes to erythrocytes is:
 - (a) 1:60
 - (b) 1:600
 - (c) 1:6000
 - (d) 1:60,000

4. Kupffer cells and microglia are fixed tissue macrophages. They are derived from:
 - (a) T-Lymphocytes
 - (b) Basophils
 - (c) B-Lymphocytes
 - (d) Monocytes

5. Right and left vertebral arteries unite to form the basilar artery. They are branches of which of the following arteries:
 - (a) External carotid
 - (b) Subclavian
 - (c) Axillary
 - (d) Internal carotid

6. Which one of the following is associated with the left side of the heart:
 - (a) Coronary sinus
 - (b) Pulmonary trunk
 - (c) Pulmonary artery
 - (d) Pulmonary vein

7. Mucosal associated lymphoid tissue (MALT) is associated with all of the following organ systems EXCEPT:
 - (a) Cardiovascular
 - (b) Gastrointestinal
 - (c) Respiratory
 - (d) Genitourinary

8. Lymphatic cells are found in the lymphoid tissues and organs. They include:
 - (a) Dendritic, monocytes
 - (b) Lymphocytes, dendritic cells
 - (c) Neutrophils, macrophages
 - (d) Monocytes, lymphocytes

9. Concerning myenteric plexus:
 - (a) Regulates gastrointestinal secretions
 - (b) Located in the submucosa
 - (c) Activity increased by vagal stimulation
 - (d) Controlled by the central nervous system

10. Which of the following joints is the odd one out:
 - (a) Dentoalveolar
 - (b) Hip
 - (c) Wrist
 - (d) Tibiofibular

11. Hepatopancreatic ampulla is derived from the union of the pancreatic duct (Duct of Wirsung) and the:
 - (a) Hepatic duct
 - (b) Common bile duct
 - (c) Common hepatic duct
 - (d) Cystic duct

12. The part of the brain stem containing most of the vital centers is the:
 - (a) Magnum foramen
 - (b) Midbrain
 - (c) Medulla oblongata
 - (d) Pons

13. The part of the brain that control emotions essentially referred to as the “emotional brain” is:
 - (a) Limbic system
 - (b) Hippocampus
 - (c) Orbitofrontal cortex
 - (d) Basal ganglia

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14. The major difference between the cones and rods is that cones:
 - (a) Are sensitive to color
 - (b) Are sensitive to light
 - (c) Do not provide sharp image
 - (d) Absent in fovea centralis

15. The main uterine support is provided by which of the following ligaments:
 - (a) Round
 - (b) Broad
 - (c) Uterosacral
 - (d) Cervical

16. Vas deferens is associated with which type of epithelium:
 - (a) Transitional
 - (b) Pseudostratified columnar
 - (c) Simple squamous
 - (d) Non keratinized stratified squamous

17. All are contents of the spermatic cord EXCEPT
 - (a) Ejaculatory duct
 - (b) Ductus deferens
 - (c) Testicular artery
 - (d) Cremaster muscle

18. Gaseous exchange occurs in which of the following regions of the respiratory system:
 - (a) Respiratory bronchioles, terminal bronchioles
 - (b) Terminal bronchioles, alveoli
 - (c) Respiratory bronchioles, alveolar duct
 - (d) Alveolar duct, terminal bronchioles

19. Hormone regulated water reabsorption occurs in the:
 - (a) Loop of Henle
 - (b) Distal convoluted tubule
 - (c) Collecting duct
 - (d) Proximal convoluted duct

20. Among the organs anterior to the right kidney is the:
- (a) Duodenum
 - (b) Liver
 - (c) Spleen
 - (d) Pancreas

SECTION B: SHORT ANSWER QUESTIONS (35 MARKS)

1. State five (5) endocrine cells of the anterior pituitary indicating one hormone secreted by each. [5 marks]
2. Describe briefly the histology of arterial wall. [6 marks]
3. Classify cranial nerves giving two (2) examples of each. [6 marks]
4. Peritoneum contains large folds that weave between the viscera. State five (5) of its components. [5 marks]
5. State the five (5) lymphatic trunks. [5 marks]
6. Compare and contrast the right and left bronchus. [4 marks]
7. State four (4) sutures of the cranium. [4 marks]

SECTION C: LONG ANSWER QUESTIONS (15 MARKS)

1. Utilizing a well labeled diagram, describe the main component of the male reproductive system. [15 marks]
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