

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATION

**RESIT/SUPPLEMENTARY / SPECIAL EXAMINATIONS EXAMINATION FOR
THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN NURSING
(UPGRADING)**

NURU 116: HUMAN ANATOMY III

STREAMS: BSc. Nursing (upgrading) (Y1S1)

TIME: 2 HOURS

DAY/DATE: WEDNESDAY 05/05/2021

2.30 P.M - 4.30 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 ejaculatory duct is made by the union of vas deferens and a duct from:
 - a) Seminal vesicle
 - b) Cowper's gland
 - c) Epididymis
 - d) Sperm duct
2. The correct order of path of sperm from the testis to outside the body is:
 - a) Ductus deferens-epididymis-ejaculatory duct-penis
 - b) Ejaculatory duct- ductus deferens-epididymis-penis
 - c) Penis- ejaculatory duct- epididymis- ductus deferens

- d) Epididymis- ductus deferens- ejaculatory duct-penis
3. The part of the respiratory system that participates in gaseous exchange is:
 - a) Terminal bronchioles
 - b) Respiratory bronchioles
 - c) Lungs
 - d) Larynx
 4. The laryngeal cartilage that provides attachment to the vocal cord is:
 - a) Arytenoids
 - b) Corniculate
 - c) Cricoid
 - d) Thyroid
 5. Concerning the kidneys:
 - a) Right kidney is higher than the left one
 - b) Each contains about 5 M nephrons
 - c) Left kidney is bordered by the spleen anteriorly
 - d) Contains mainly the cortical nephrons
 6. Part of the nephrons associated with the renal medulla is:
 - a) Proximal convoluted tubule
 - b) Gromerulus
 - c) Loop of Henle
 - d) Distal convoluted tubule
 7. Primary lymphatic organs include:
 - a) Thymus
 - b) Spleen
 - c) Lymph node
 - d) Tonsils
 8. Lymphatic capillaries are different from the blood capillaries because blood capillaries:
 - a) Endothelial cells overlap
 - b) Has valves
 - c) Has a narrower lumen
 - d) Has anchoring filaments

9. Plasma cells synthesize immunoglobulins. They arise from:
- a) B-Lymphocytes
 - b) T-Lymphocytes
 - c) Neutrophils
 - d) Monocytes
10. Granulocytes include:
- a) Neutrophils, macrophage
 - b) Neutrophils, basophils
 - c) Neutrophils, monocyte
 - d) Monocytes, lymphocytes
11. Mixed cranial nerves include:
- a) Trigeminal
 - b) Vestibulocochlear
 - c) Hypoglossal
 - d) Olfactory
12. Part of the brain containing the vital centers include:
- a) Cerebral cortex
 - b) Cerebellum
 - c) Diencephalon
 - d) Brain stem
13. The most abundant cell of the anterior pituitary is the:
- a) Lactotrophs
 - b) Somatotrophs
 - c) Corticotrophs
 - d) Gonadotrophs
14. Talocrural joint is an example of a :
- a) Ball and socket joint
 - b) Gliding joint
 - c) Saddle joint
 - d) Hinge joint

15. Muscular arteries include the :
- a) Subclavian
 - b) Common carotid
 - c) Femoral
 - d) Celiac
16. Sinusoids are associated with the:
- a) Liver
 - b) Brain
 - c) Lungs
 - d) Muscle
17. The papillae containing most of the taste buds is:
- a) Fungiform
 - b) Circumvallate
 - c) Foliate
 - d) Filiform
18. Extrinsic muscles of the eyeball move the eyeball in different directions. The muscle that move the eyeball upwards is the:
- a) Superior rectus
 - b) Inferior rectus
 - c) Lateral rectus
 - d) Medial rectus
19. Concerning myenteric plexus:
- a) Located in the submucosa
 - b) Regulates gastrointestinal secretions
 - c) Activity increased by vagal stimulation
 - d) Controlled by the central nervous system
20. Hepatopancreatic ampulla is derived from the union of the pancreatic duct(Duct of Wirsung) and the:
- a) Hepatic duct
 - b) Common hepatic duct

- c) Cystic duct
- d) Common bile duct

SHORT ANSWER QUESTIONS (35 MARKS)

1. Describe the histology of the duodenum (6 marks)
2. Explain two (3) layers of the adrenal cortex giving hormones secreted by each (4 marks)
3. Outline the five (5) lymphatic trunk that drain the left side of the body (5 marks)
4. State five(5) differences between cortical and juxtamedullary nephrons (5 marks)
5. State the four(4) regions of the parietal pleura (4 marks)
6. Compare and contrast the anatomical features of right and left lung (6 marks)
7. Enumerate five(5) physical properties of blood (5 marks)

LONG ANSWER QUESTIONS (15 MARKS)

QUESTION ONE

The heart is a roughly cone-shaped hollow muscular organ the size of the owner's fist. It is located in the mediastinum and is responsible for pumping the blood.

- a) Draw a well labeled diagram illustrating the conducting system of the heart (6 marks)
 - a) Describe the structural organization of the heart wall (6 marks)
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