

CHUKA



UNIVERSITY

**UNIVERSITY EXAMINATIONS**

**RESIT/SPECIAL EXAMINATION**

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

**NURS 114: HUMAN ANATOMY II**

**STREAMS: BSC NURSING (YIT1)**

**TIME: 3 HOURS**

**DAY/DATE: WEDNESDAY 03/11/2021**

**2.30 P.M – 5.30 P.M.**

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**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. Which of the following cells create the Blood- testis barrier:
  - a) Sertoli
  - b) Leydig
  - c) Spermatogenic
  - d) Macula densa
2. Ovarian arteries, ovarian vein and nerves enter the ovary through which of the following ligament:
  - a) Mesovarium
  - b) Suspensory
  - c) Ovarian
  - d) Broad
3. Before ejection milk is usually stored in the:
  - a) Lactiferous duct
  - b) Areolar
  - c) lactiferous sinus

- d) Alveoli
- 4. Which of the following is associated with the renal medulla:
  - a) Proximal convoluted tubule
  - b) Glomerulus
  - c) Loop of Henle
  - d) Distal convoluted tubules
- 5. The Left kidney is generally found at the level of:
  - a) T<sub>12</sub>-L<sub>3</sub>
  - b) T<sub>10</sub>-L<sub>1</sub>
  - c) L<sub>2</sub>-L<sub>5</sub>
  - d) T<sub>8</sub>-T<sub>12</sub>
- 6. The outer cortex contains lymphatic nodules. Primary nodules contain:
  - a) B-Lymphocytes
  - b) Plasma cells
  - c) T-Lymphocyte
  - d) Macrophages
- 7. Lymphatic capillaries are different from the blood capillaries because blood capillaries:
  - a) Endothelial cells overlap
  - b) Has a narrower lumen
  - c) Has valves
  - d) Contains anchoring filaments
- 8. Macrophages arise from:
  - a) Lymphocytes
  - b) Neutrophils
  - c) Basophils
  - d) Monocytes
- 9. Blood cells that are phagocytic include:
  - a) Neutrophils, macrophages
  - b) Neutrophils, monocytes
  - c) Monocytes, macrophages
  - d) Basophils, eosinophils
- 10. Mixed cranial nerves include:
  - a) Trigeminal
  - b) Vestibulocochlear
  - c) Hypoglossal
  - d) Olfactory
- 11. Zona glomerulosa secretes:
  - a) Cortisol
  - b) Androgens
  - c) Aldosterone
  - d) Epinephrine
- 12. The most abundant cell of the anterior pituitary secretes:

- a) Follicle stimulating hormone
- b) Thyroid stimulating hormone
- c) Adrenocorticotrophic hormone
- d) Human growth hormone

13. External jugular veins empty their blood into the:

- a) Superior vena cava
- b) Subclavian vein
- c) Brachiocephalic vein
- d) Vertebral vein

14. The following statement is true concerning the heart:

- a) Has an apex at the level of the 2<sup>nd</sup> rib
- b) Bordered anteriorly by the trachea
- c) Directed anteriorly and inferiorly
- d) Has the right ventricle on the anterior aspect

15. The papillae containing most of the taste buds is:

- a) Fungiform
- b) Circumvallate
- c) Foliate
- d) Filiform

16. 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

17. Concerning myenteric plexus:

- a) Located in the submucosa
- b) Regulates gastrointestinal secretions
- c) Controlled by the central nervous system
- d) Activity increased by vagal stimulation

18. 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

19. The horizontal fissure separates the:

- a) Right superior lobe from the middle lobe
- b) Right middle lobe from the inferior lobe

- c) Left superior lobe from the inferior lobe
  - d) Left superior lobe from the inferior lobe
20. Pyramid shaped laryngeal cartilage that supports the vocal cords is the:
- a) Arytenoid
  - b) Cricoid
  - c) Corniculate
  - d) Thyroid

**SHORT ANSWER QUESTIONS (40 MARKS)**

- 1. Indicate five(5) ways through which duodenum differs from colon (5 marks)
- 2. List the four(4) cells of the pancreatic islets indicating the hormone secreted by each (4 marks)
- 3. Outline five (5) lymphatic trunks that drain lymph into the left lymphatic duct (5 marks)
- 4. State five(5) differences between cortical and juxtamedullary nephrons (5 marks)
- 5. Explain the three(3) paired cartilages of the larynx (6 marks)
- 6. Enumerate the four(4) alveolar cells (4 marks)
- 7. Describe the three (3) parts of the brain stem (6 marks)
- 8. Describe two(2) types of synovial joints giving an example of each (5 marks)

**SECTION C: LONG ANSWER QUESTIONS (40 MARKS)**

- 1. The heart is a roughly cone-shaped hollow muscular organ size of the owner's fist. It is located in the mediastinum and is responsible for pumping the blood.
  - a) Utilizing a well labeled diagram, describe the conducting system of the heart (12 marks)
  - b) Describe four(4) valves found in the interior of the heart (8 marks)
- 2. Uterus is a supporting structure of the female reproductive system. It is situated between the urinary bladder and rectum. It measures 7.5cm long, 5cm wide and 2.5cm in women who have never been pregnant.
  - a) Describe the four(4) components of the female reproductive system (12 marks)
  - b) Describe the layers of the wall of the body of the uterus (8 marks)