

CHUKA



UNIVERSITY

**UNIVERSITY EXAMINATION**

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

**NURS 114: HUMAN ANATOMY II**

**STREAMS: BSc. Nursing (Y1S1)**

**TIME: 2 HOURS**

**DAY/DATE: WEDNESDAY 5/5/2021**

**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.

**SECTIONA: MULTIPLE CHOICE QUESTIONS (20 MARKS)**

1. 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
2. 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
- 3. The main uterine support is provided by which of the following ligaments:
  - a) Round
  - b) Cardinal
  - c) Broad
  - d) Uterosacra
- 4. 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
- 5. Thymus consists of the following cells **EXCEPT**:
  - a) T helper
  - b) Plasma
  - c) Dendritic
  - d) Macrophages
- 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. Lymphatic capillaries are different from the blood capillaries because blood capillaries:
  - a) Endothelial cells overlap
  - b) Has valves
  - c) Contains anchoring filaments
  - d) Has a narrower lumen
- 8. Macrophages arise from:
  - a) Lymphocytes

- b) Neutrophils
  - c) Basophils
  - d) Monocytes
9. The following feature is true concerning the neutrophil:
- a) Has a horse shoe shaped nucleus
  - b) Highly motile
  - c) It is the largest of the leucocytes
  - d) It is elevated in parasitic infestation
10. Mixed cranial nerves include:
- a) Trigeminal
  - b) Vestibulocochlear
  - c) Hypoglossal
  - d) Olfactory
11. All of the following cranial nerves are associated with the eye **EXCEPT**
- a) Abducens
  - b) Trochlear
  - c) Optic
  - d) Facial
12. Zona reticularis secretes:
- a) Cortisol
  - b) Aldosterone
  - c) Androgens
  - d) Epinephrine
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. All of the following veins are associated with the hepatic portal vein **EXCEPT**:
- a) Splenic
  - b) Gastric
  - c) Cystic
  - d) Inferior mesenteric
16. Parietal branches of the abdominal aorta include:
- a) Lumbar
  - b) Suprarenal
  - c) Gonadal
  - d) Renal
17. The papillae containing most of the taste buds is:
- a) Fungiform
  - b) Foliate
  - c) Circumvallate
  - 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 (40 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. Describe the (3) regions of the pharynx (6 marks)
- 7. Describe the three (3) parts of the brain stem (6 marks)
- 8. Describe two(2) types of cartilaginous joints giving an example of each (4 marks)

### **LONG ANSWER QUESTIONS (40 MARKS)**

#### **QUESTION ONE**

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 (14 marks)
- b) Describe the structural organization of the left ventricular wall (6 marks)

#### **QUESTION TWO**

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 components of the female reproductive system (12 marks)
  - b) Describe the layers of the wall of the body of the uterus (8 marks)
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