

## NURS III

CHUKA



UNIVERSITY

### UNIVERSITY EXAMINATIONS

### FIRST YEAR EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN NURSING

**NURS 114: HUMAN ANATOMY II**

**STREAMS: BSC (NURS) Y1T2**

**TIME: 2 HOURS**

**DAY/DATE: MONDAY 06/04/2020**

**8.30 A.M. – 10.30 A.M.**

#### **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. The nucleus that regulates the body's biologic clock is located in which hypothalamic region:
  - a) Supraoptic
  - b) Mammillary
  - c) Preoptic
  - d) Tuberal
2. The cranial nerve that supplies the muscles of mastication is:
  - a) Accessory
  - b) Facial
  - c) Glossopharyngeal
  - d) Trigeminal

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3. The part of the spinal cord containing cell bodies of motor neurons is:
  - a) Anterior column
  - b) Posterior column
  - c) Anterior horn
  - d) Posterior horn
  
4. Sertoli cells produce fluid that pushes the spermatozoa from the seminiferous tubule into the:
  - a) Rete testis
  - b) Straight tubules
  - c) Efferent ducts
  - d) Epididymis
  
5. Which of the following is True concerning the prostatic urethra:
  - a) Widest part of the urethra
  - b) Contains the external urethra sphincter
  - c) Passes through the corpora spongiosa
  - d) Shortest part of the urethra
  
6. The ligament that attaches the ovaries to the pelvic wall is:
  - a) Ovarian
  - b) Suspensory
  - c) Round
  - d) Mesovarian
  
7. The part of the fallopian tube that passes into the uterine wall is:
  - a) Interstitial
  - b) Ampulla
  - c) Intramural
  - d) Infundibulum
  
8. The cartilage that forms the anterior border of the larynx is:
  - a) Cricoid
  - b) Arytenoid
  - c) Epiglottis
  - d) Thyroid

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9. Concerning type II pneumocytes/ septal cells:
  - a) Have microvilli on the free surface
  - b) Forms the alveolar barrier
  - c) Synthesizes angiotensin converting enzyme
  - d) More abundant than type I pneumocytes
  
10. Primary lymphatic organs include:
  - a) Bone marrow
  - b) Spleen
  - c) Thymus
  - d) Lymph node
  
11. The outer cortex contains lymphatic nodules. Primary nodules contain:
  - a) B-Lymphocytes
  - b) Plasma cells
  - c) T-Lymphocyte
  - d) Macrophages
  
12. Branch of the coronary artery that supplies the left ventricle is:
  - a) Circumflex
  - b) Marginal
  - c) Anterior interventricular
  - d) Posterior interventricular
  
13. Concerning fenestrated capillaries:
  - a) They lack a basement membrane
  - b) Plasma membrane of endothelial cells have small pores
  - c) Associated with the liver and the kidney
  - d) Have unduly large intercellular clefts
  
14. The most abundant leucocyte in the blood is:
  - a) Neutrophil
  - b) Monocyte
  - c) Basophil
  - d) Eosinophil

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15. The joint between the first rib and the sternum is a:
- a) Synchrondrosis
  - b) Gomphosis
  - c) Symphysis
  - d) Syndesmosis
16. Organs associated with the anterior border of the right kidney include:
- a) Diaphragm, jejunum
  - b) Spleen, stomach
  - c) Duodenum, stomach
  - d) Jejunum, stomach
17. Part of the renal tubule located in the cortex is:
- a) Glomerulus
  - b) Loop of Henle
  - c) Distal convoluted tubule
  - d) Bowman's capsule
18. Urine from each nephron is collected by the collecting ducts which empty into the:
- a) Minor calyces
  - b) Major calyces
  - c) Renal pelvis
  - d) Papillary duct
19. Salivary gland that contain serous acini only include:
- a) Parotid
  - b) Sublingual
  - c) Submandibular
  - d) Lesser lingual
20. Which of the following is associated with the small intestines only:
- a) Meissner's plexus
  - b) Taeniae coli
  - c) Omental appendages
  - d) Plicae circularis

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### SECTION B: SHORT ANSWER QUESTIONS (40 marks)

1. Describe the histology of vas deferens [5 marks]
2. Describe the structural organization of pericardium [5 marks]
3. Compare and contrast the right and left lung [6 marks]
4. Outline the parts of the pleurae [4 marks]
5. Describe the three (3) ways in which the pituitary and the hypothalamus are Connected [6 marks]
6. Draw a well labelled diagram illustrating the structure of a molar tooth [6 marks]
7. State four (4) cells found in the duodenal mucosa indicating the role of each [4 marks]
8. Explain the two (2) types of lymphatic ducts [4 marks]

### SECTION C: LONG ANSWER QUESTIONS (40 Marks)

1. Describe the structural organization of the eye ball [20 marks]
  2. a) Describe the components of the brain stem [12 marks]  
b) Explain four structures that protect the brain [8 marks]
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