CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

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

NURS 114: HUMAN ANATOMY II

STREAMS: BSC (NURS)

TIME: 3 HOURS

8.30 AM – 11.30 AM

DAY/DATE: MONDAY 13/04/2015

INSTRUCTIONS:

- 1. Do not write anything on the question paper.
- 2. Mobile phones and any other reference materials are NOT allowed in the examination room.
- 3. Write your examination number on every sheet of paper written on
- 4. The paper has three sections. Answer ALL questions.
- 5. Write your answers legibly and use your time wisely
- 6. All your answers for Section I (MCQs) should be on one page
- 7. Each part should be started on a new page
- 8. Number ALL your answers and indicate the order of appearance in the space provided in the cover page of the examination answer booklet.

PART A: MULTIPLE CHOICE QUESTIONS (20 MARKS)

- 1. Purely endocrine organs include:
 - (a) Pineal, thymus
 - (b) Pancreas, thyroid
 - (c) Parathyroid, pituitary
 - (d) Pancreas, gonads
- 2. Which of the following is TRUE concerning the parathyroid glands
 - (a) They are two in number
 - (b) Oxphil cells secrete parathyroid hormone
 - (c) Has two lobes connected by an isthmus
 - (d) Usual surrounded by a connective tissue capsule
- 3. Accessory digestive organs include:
 - (a) Teeth, stomach

- (b) Spleen, gall bladder
- (c) Liver, tongue
- (d) Liver, spleen
- 4. Concerning the small intestines:
 - (a) They contain K-cells that secrete secretin
 - (b) They have circular folds that increase the surface area
 - (c) Its wall has three layers of smooth muscle
 - (d) Jejunum is the longest portion
- 5. Which of the following is <u>TRUE</u> concerning the tongue
 - (a) Consists of longitudinal smooth muscles
 - (b) Has hypoglossus as its extrinsic muscle
 - (c) Has taste buds on the entire surface
 - (d) Has genioglossus as its intrinsic muscle
- 6. All of the following are TRUE concerning the structure of the lymphatic capillaries EXCEPT:
 - (a) They are closed at one end
 - (b) They contain valves
 - (c) They are slightly wider than blood capillaries
 - (d) They are surrounded by a thick endothelium
- 7. Concerning the mitral valve:
 - (a) It marks the boundary between the atria
 - (b) Its consists of two cusps
 - (c) It is a semilunar valve
 - (d) It is also called the tricuspid valve
- 8. Which of the following statements is T<u>RUE</u> concerning the heart:
 - (a) Superior venacava opens into the right atrium
 - (b) The two pulmonary veins open into the left atrium
 - (c) Derives its blood supply from the coronary sinus
 - (d) Pulmonary trunk empties into the left ventricle
- 9. Concerning the plasma proteins
 - (a) They are synthesized by the liver
 - (b) Constitutes 58% of the blood plasma
 - (c) Globulins are the most abundant
 - (d) Fibrinogen act mainly as carriers
- 10. Which of the following is correct concerning the leukocytes
 - (a) They lack cytoplamic organelles
 - (b) Basophils are the most abundant
 - (c) Monocytes are mainly phagocytic
 - (d) Neutorophils have 3-5 lobes

- 11. Paired laryngeal cartilages include:
 - (a) Arytenoid, corniculate
 - (b) Cuneiform, thyroid
 - (c) Epiglottis, thyroid
 - (d) Cricoid, cuneiform
- 12. Conducting portion of the respiratory system include:
 - (a) Alveolar duct, alveoli
 - (b) Nasal cavity, alveolar duct
 - (c) Trachea, larynx
 - (d) Larynx, respiratory bronchioles
- 13. Paranasal sinuses are found in which cranial bones:
 - (a) Ethmoid, mandible
 - (b) Frontal, nasal
 - (c) Sphenoid, maxillary
 - (d) Maxillary, nasal
- 14. Injury to which lobe of cerebral cortex is likely to result in blindness:
 - (a) Frontal
 - (b) Temporal
 - (c) Occipital
 - (d) Parietal
- 15. Which of the following organs are found anterior to the left kidney?
 - (a) Stomach, pancreas
 - (b) Liver, duodenum
 - (c) Diaphragm, spleen
 - (d) Adrenal glands, pancreas
- 16. Concerning the male urethra:
 - (a) External urethra is surrounded by the prostrate gland
 - (b) It is about 20 cm long
 - (c) Membranous urethra is the most dilated part
 - (d) Prostatic urethra is the shortest part

For question 17 and 18, indicate if the following statements are True (T) or False (F)

- 17. Concerning special senses:
 - (a) _____Olfactory receptors occupies an area of 5 cm^2
 - (b) _____ Taste buds are located in the tongue only
 - (c) ____Cones of the eye produce color vision
 - (d) _____Rods are absent in the fovea centralis

18. Concerning the cranial nerves

2.

- (a) _____Facial nerve is a motor nerve
- (b) _____ Accessory nerve supplies the eye muscles
- (c) _____ Trochlear nerve supplies the eye muscles
- (d) Maxillary nerve is a branch of trigeminal nerve.

PART B: SHORT ANSWER QUESTIONS [40 MARKS]

1.	State f	ive types of synovial joints giving an example of each.	[5 marks]		
2.	Descri	be briefly the structural organization of the stomach wall.	[6 marks]		
3.	Briefly	v describe the pelvic diaphragm	[6 marks]		
4.	Briefly	describe the structure of the adrenal cortex as an endocrine organ	[6 marks]		
5.	State f	ive (5) differences between cortical and juxtamedullary nephrons	[5 marks]		
6.	Descri	be the sympathetic motor pathway	[6 marks]		
7.	Briefly	v describe the anatomical features of the left lung	[6 marks]		
PART C: LONG ANSWER / ESSAY QUESTIONS – 40 MARKS					
1.	(a)	Draw a well labeled diagram of the female internal genitalia	[7 marks]		

(b)	Describe the route followed by the sperm after it is released at tubule until it is released from the body.	the seminiferous [13 marks]
(a)	With the aid of a well labeled diagram, describe the conducting	g system of the

heart [12 marks](b) Describe the major anatomical differences between an artery and a vein.

[8 marks]
