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

DAY/DATE: MONDAY 13/04/2015 8.30 AM – 11.30 AM

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 TRUE 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 TRUE 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.		d laryngeal cartilages include:			
	(a)	Arytenoid, corniculate			
	(b)	Cuneiform, thyroid			
	(c)	Epiglottis, thyroid Cricoid, cuneiform			
	(d)	Cricold, cullerioriii			
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			
	(a) (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 Two (T) or Folse (F)			
	roi (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				
	(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: SH	ORT ANSWER QUESTIONS [40 MARKS]			
1.	State f	ive types of synovial joints giving an example of each.	[5 marks]		
2.	Describe briefly the structural organization of the stomach wall. [6 marks]				
3.	Briefly describe the pelvic diaphragm [6 marks]				
4.	Briefly describe the structure of the adrenal cortex as an endocrine organ [6 marks]				
5.	State five (5) differences between cortical and juxtamedullary nephrons [5 marks]				
6.	Describe the sympathetic motor pathway				
7.	Briefly describe the anatomical features of the left lung [6 mar				
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 the stubule until it is released from the body.	seminiferous [13 marks]		
2. (a) With the aid of a well labeled diagram, desheart		With the aid of a well labeled diagram, describe the conducting sysheart	stem of the [12 marks]		
	(b)	Describe the major anatomical differences between an artery and a	vein. [8 marks]		