

Technical University of Mombasa

Faculty of Applied and Health Sciences

DEPARTMENT OF MEDICAL SCIENCES

UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF MEDICAL LABORATORY SCIENCES

BMLS 13S (Mid entry)

AML 4241: HUMAN ANATOMY II

SPECIAL/SUPPLEMENTARY EXAMINATION

MARCH 2014 SERIES

2 HOURS

Instructions to candidates:

This paper consist of TWO sections A and B

Section A - Contains MCQS, any wrong response will be penalised. Answer ALL questions in Section B.

SECTION A – MCQs – (30 marks)

- 1. The vocal cords are supplied by which clarial nerve
 - a) Hypoglosal nerve
 - b) Vagus nerve
 - c) Facial nerve
 - d) Accessory nerve
 - e) Vestibulo choclea nerve
- 2. The pharynx is divided into the following except
 - a) Nasopharynx
 - b) Layngopharynx
 - c) Hypopharynx
 - d) Prophasynx
 - e) Trachespharynx

- 3. The function of the nose includes the following except
 - a) Humidification of the inhaled air
 - b) Gaseous exchange with the alwesli
 - c) Purification of the inhaled air
 - d) Warming of the inhaled air
 - e) Olfaction
- 4. Which statement is true about the anatomical organization of the bronchi
 - a) The primary bronchi supplies the bronchi pulmonary segment
 - b) The left lung has three secondary bronchi and the right lung has two
 - c) The primary bronchus divides into secondary bronchus which further divides into segmental bronchi
 - d) The segmental bronchi are also known as lobar bronchi
 - e) The secondary bronchi gives rise to several respiratory bronchioles
- 5. Which statement about the respiratory system is false
 - a) The pulmonary alveslus is the basic structural unit of gas exchange in the lung
 - b) The right lung has three lobes and is much large
 - c) The trachea extends from C6 T5
 - d) The tracheal beings are continuous cartilaginous rings encompassing the trachea both anteriorly and pasteriorly
 - e) The hypopharynx is a common site for foreign bodies
- 6. The oropharynx:
 - a) Is immediately posterior to the oral cavity
 - b) Is purely a digestive pathway
 - c) Inferior boundary is the thyroid cartilage
 - d) Has no lymphatic organs
 - e) The superior boundary is the nose
- 7. The thoracic skeleton is made up of the following bones
 - a) Ribs, stunum, clavide and the hyoid bone
 - b) Ribs, clavide, thyroid cartilage and the humerus
 - c) The scapula, Ribs, Stermum and the hyoid bone
 - d) The sternum, clavide, humerus and hyoid bones
 - e) The ribs, sternum, clavide and scapula
- 8. Which statement is true about the thoracic cavity/skeleton
 - a) The lateral compartments are occupied by the lungs
 - b) The central compartment is occupied with blood vessels
 - c) The true ribs are the $8^{th}/9^{th}$ and 10^{th} ribs
 - d) Xiphoid process does not signify or mask any anatomical structures
 - e) The sternum is made up of pasts body and Xiphoid process

9. Which statement is false

- a) The superior throacid aperture is also known as the anatomical thoracic inlet
- b) The inferior thoracic aperture is bound posteriorly by the 12^{th} thoracic vertebra
- c) The thoracic outlet is bound inferiorly by the diaphragm
- d) The thoracic outlet is more spacious than the thoracic inlet
- e) The thoracic inlet is bound posteriorly by the 12th thoracic vertebrae

10. The bed of the breast is formed by:

- a) Pecbralis fascia overlying pectoralis may or
- b) Scia covering latizmus dorsi
- c) Fascia covering the diaphuagm
- d) Fascia covering the abdominis anterior
- e) Fascia covering the triceps

11. Retromammary space is defined as

- a) Space between the areslas and the lachiferous ducts
- b) Space between the breast and pectoralis fencia
- c) Space between the seratus anterior and the breast
- d) Space between kin and the fat lobules
- e) Space between the fat lobules and the suspensory ligaments

12. Which of the below statements is true

- a) The areslae is devoid of any anatomical structure
- b) The ripples composed of smooth muscle fibers
- c) The ripples composed of smooth muscle fibers
- d) Mammary glands are modified endocrine glands
- e) The alveoli are single anatomical structures

13. Which statement is false about the apex of the least:

- a) Its formed by the infestatural past of the left ventricle
- b) Lies posterior to the left 5th intecostal space
- c) Remains motionless during cardiac cycle
- d) It's the most active portion of the heart during cardiac cycle
- e) It's the point of auscultation for the apex beat

14. The atria receive blood from the following which statement is true:

- a) Pulmonary artery, asrta, Inferiror vena cava
- b) Superior venacava, coronary sinus and pulmonary cutery
- c) Venacavas, coronary sinus and aorta
- d) Aorta, pulmonary veins and asronary sinus
- e) Pulmonary veins, coronary sinus and venacaus

- 15. Which statement below is false about the cardiac valves
 - a) They enforce bidirectional flow through the heart
 - b) The atrioventricular values are the tricuspid and mitral
 - c) The semilinar values are the pulmonary and aortic
 - d) The valves open and dose in response to pressure differences
 - e) The valves are provided for structural support via the chordate tendinae and papillary muscles

16. The brachiscephalic veins

- a) Formed by the union of the external jugular vein and subclaviar veins
- b) Formed anterior the sterno clavicule joint
- c) Formed by the union of the internal jugulas and subclavian veins
- d) The brachiocephalic veins unite to form the inferior
- e) The bradio cephalic veins are both of equal size and length

17. The ascending aorta

- a) Begins at the aortic orifice
- b) Its branches are the common carstid vessels
- c) Its extra pericardial
- d) It's a control of the superior mediastinum
- e) It's the point of origin for most vessels

18. The superior vena cava

- a) Returns all blood from below the diaphragm
- b) It chains the lungs and the heart
- c) It enters the left atrium of the heart
- d) It traverses the entire mediastinum
- e) It exits the heart from the right atrium

19. The urethra

- a) Is short muscular duct that runs from renal pelvis to the bladder
- b) It has areas of constriction as it runs over the pelvic brain
- c) In females it's a short duct that runs from the bladder neck to the external urethral orifice
- d) Its rigid and longer in females as compared to the male urethra
- e) The male urethra functions purely as an urinary structure

20. In regards to the macroscopic internal structure of the kidney which statement is true

- a) Renal pelvis is the inner most structure which chains into the calyces
- b) The major calyces drain into the minor calycles
- c) The renal acumens are found in the medulla of the kidney
- d) The minor calyces chain into the major calyces which chain into the renal pelvis
- e) A renal sinus is the space which is occupied by only fat

- 21. Which below is true about the kidney
 - a) The supers medial relation of the both the right and left kidney varies
 - b) The support of the kidney renal fascia, perinephisic and paranephsic fat.
 - c) The kidney is a fixed organ with no mobility
 - d) The renal fascia is adherent inferiorly
 - e) The kidney extends form L3 to L6
- 22. Which below is an organ found in the right hypochondrial region :
 - a) Liver
 - b) Stomach
 - c) Spleen
 - d) Kidney
 - e) Bladder
- 23. Which statement is false about the abdominal wall:
 - a) Its made up of 5 muscles bilaterally parsed
 - b) Its subdivided into the anterolateral wall and posteriror wall
 - c) The anterolateral wall extends superiorly to the cartilages of the 7^{th} 10^{th} ribs and the Xiphoid process
 - d) The vertical muscles are the rectus abdominis and pyramidal
 - e) The anterslateral abdominal wall is rigid
- 24. The esophagus has 3 constrictions. Which below is one of the anatomic constrictions.
 - a) Abdominal constriction where it enters the stomach
 - b) Pelvic constriction where it assess the pelvic brain
 - c) Thoracic constriction where its crossed by the arch of the aorta and left main bronchus
 - d) Cervical constriction where it crosses the trachea
 - e) Intestinal constriction at the fungus of the stomach
- 25. Which statement is true about the small intestines:
 - a) The duodenum is the largest and last past
 - b) The jejunum is the widest and most fixed past
 - c) There is no clear demarcation between the jejunum and ileum
 - d) The ileum begins at the ilescecal junction
 - e) There is no recently between the jejunum and ileum
- 26. The spleen:
 - a) It is a major endocrine organ
 - b) Its located in the left lumbar region
 - c) Its an organ that lacks a capsule
 - d) It forms past of the bed of the stomach
 - e) It has no relation with the kidney

27. The gall bladder

- a) Lies in a fossa for the gall bladder on the visceral surface of the liver
- b) It has only 2 parts: fungus and neck
- c) Its not attached to the liver
- d) The common hepatic duct connects directly to the neck of the gall bladder
- e) The blood supply is via the hepatic cutlery

28. Which statement below is true:

- a) The right adrenal gland is cresent in shape
- b) The pituitary gland is housed in the sella furcica
- c) The pituitary gland lies between the optic chiesma
- d) The adrenal gland medium products the sex hormones
- e) The sphenoridal air sinuses are a superior relation to the pituitary gland

29. Which below is true

- a) The thyroid gland is posterior to the trachea
- b) The vascular supply of the thyroid gland includes the superior, middle and inferior thyroid asterics
- c) The thyroid in a cutlery is always present.
- d) The pyramidal lobe projects inferiorly from the isthmus
- e) The venous supply includes the superior middle and inferior thyroid arteries

30. The following statements are false. Which is true

- a) The tympanic membrane is red in astor in a non pathological ear
- b) The macteus contracts when the ear is exposed to a loud noise
- c) There is an open area of communication between the external and middle ear
- d) The cone of light is anters inferior
- e) The round window is found in the mastoid

SECTION B

- 1. (a) Write short notes on the treachesbronchial tree arrangement and the bronchi pulmonary segments (10marks)
 - (b) Discuss the gross anatomy of the visceral surface of the liver and the liver lobule (10marks)
- 2. (a) Discuss the gross anatomy of the male urethra (10marks)
 - (b) Discuss the gross anatomy of the thyroid gland in terms of structure, relations and vacular supply (10marks)