## ANA 121 MIDYEAR EXAM

## 1st Semester 1429-1430 (2008-2009)

- 1. The internal thoracic artery:
  - A. Terminates as inferior phrenic and inferior epigastric arteries.
  - B. Descends behind the sternum.
  - C. Is a branch of the axillary artery.
  - D. Is accompanied by the azygos vein on its right side.
  - E. Ends in the 6<sup>th</sup> intercostal space.
- 2. Regarding the trachea, one statement is **WRONG**:
  - A. It bifurcates at the level of sterna angle, (lower border of T4).
  - B. Carnia of the trachea could be seen through the bronchoscope.
  - C. In deep inspiration carnia ascends upwards.
  - D. Arch of the aorta lies infront, and on the left side of the trachea.
  - E. Arch of the azygos vein lies on the right side of the trachea.
- 3. Regarding the conducting system of the heart
  - A. Impulse of cardiac contraction spontaneously begins in the sinuatrial node.
  - B. Sinuatrial node may be supplied by the left coronary artery.
  - C. Sympathetic nerves to the heart slow the heart rate.
  - D. Atrioventricular bundle is the only pathway for conduction between atria and ventricles.
  - E. Atrioventricular bundle descends behind the septal cusp of the tricuspid valve.
- 4. Regarding surface anatomy and auscultation of the heart valves, choose the **<u>CORRECT</u>** statement:
  - A. Tricuspid valve lies behind the left half of the sternum.
  - B. Aortic valve lies behind the right half of the sternum.
  - C. Mitral valve lies behind the left half of the sternum opposite the 3<sup>rd</sup> intercostal.
  - D. Pulmonary valve is best heard at the medial end of the 2<sup>nd</sup> left intercostal space.
  - E. Aortic valve is best heard over the apex beat.
- 5. Concerning the innervations of the thoracic structures, all of the following are true, **EXCEPT**:
  - A. The lung and visceral pleura are supplied by autonomic nerves.
  - B. Motor innervation for the diaphragm is from phrenic nerve.
  - C. Innervation of the mucous membrane of the trachea is from the vagi.
  - D. The lower 6 intercostal nerves give motor innervations to the periphery of the diaphragm.
  - E. The sinuatrial receives fibers from the cardiac plexuses.
- 6. Blood clot (embolus) in which one of the following veins cannot reach the left lung:
  - A. Right subclavian.
  - B. Azygos.
  - C. Inferior vena cava.
  - D. Left pulmonary vein.
  - E. Superior vena cava.

- 7. Regarding the bronchopulmonary segments:
  - A. The base of each segment is directed towards the lung root.
  - B. The segmental artery runs in the connective tissue between the segments.
  - C. A diseased segment could be removed surgically without damaging the adjacent segments.
  - D. The middle lobe of the right lung ahs 3 segments.
  - E. Each segment receives a secondary bronchus.
- 8. Concerning the right lung, choose the **INCORRECT** statement:
  - A. Its horizontal fissure demarcates between the superior and the middle lobes.
  - B. Its lymphatic passes to its hilum by superficial and deep lymphatic plexuses.
  - C. The pulmonary ligament allows the vessels to move during respiratory movement.
  - D. Its visceral pleura is sensitive to pain and temperature.
  - E. Its bronchial veins drain into the azygos vein.
- 9. The esophagus:
  - A. Is supplied partly by the inferior thyroid artery.
  - B. Is crossed by the right principle bronchus.
  - C. Is related anteriorly to the descending thoracic aorta at its lower end.
  - D. Is related to the thoracic duct along its right border.
  - E. Is related anteriorly to the transverse pericardial sinus.
- 10. Concerning the abdominal wall, choose the **INCORRECT** statement:
  - A. The internal oblique fibers continue into the scrotum as cremasteric muscle.
  - B. The epigastric vessels run behind the rectus abdominis muscle.
  - C. Its lymphatic above the level of the umbilicus drain into the axillary lymph nodes.
  - D. The skin around the umbilicus is supplied by the subcostal.
  - E. Pyramidalis muscle arises from the front of the pubis.
- 11. Which one of the following structures doesn't belong to the external oblique muscle and its aponeurosis?
  - A. Inguinal ligament.
  - B. Lacunar ligament.
  - C. Superficial inguinal ring.
  - D. Conjoint tendon.
  - E. External spermatic fascia.
- 12. Regarding the inguinal canal:
  - A. Its anterior wall is formed by the internal oblique muscle along its whole length.
  - B. Its posterior wall is formed by the conjoint tendon along its lateral part.
  - C. Its floor is formed by the inguinal ligament along its entire length.
  - D. The deep inguinal ring lies in the transversus abdominis.
  - E. Its well developed in females than in males.
- 13. Which of the following structures does not cover the spermatic cord?
  - A. External spermatic fascia.
  - B. Internal spermatic fascia.
  - C. Cremasteric fascia.
  - D. Tunica vaginalis.
  - E. Cremasteric muscle.
- 14. Which one of the structures forms the posterior boundary of the epiploic foramen?
  - A. Duodenum.
  - B. Lesser omentum.
  - C. Stomach.
  - D. Inferior vena cava.
  - E. Transverse colon.

- 15. The lesser omentum:
  - A. Extends inferiorly as far as the transverse colon.
  - B. Separates the lesser sac of peritoneal cavity from the greater sac.
  - C. Contains the left and right gastroepiploic vessels.
  - D. Its free border contains the hepatic veins.
  - E. Attached superiorly to the fissure for ligamentum teres.
- 16. Perforating ulcer of the posterior wall of the stomach body may erode one of the following arteries:
  - A. Right gastroepiploic.
  - B. Splenic.
  - C. Hepatic.
  - D. Left gastroepiploic.
  - E. Gastroduodenal.
- 17. Regarding the spleen:
  - A. Its long axis lies along the shaft of the 10<sup>th</sup> rib.
  - B. Its lower pole can be easily palpated in normal healthy person.
  - C. The gastrosplenic ligament carries the tail of the pancreas.
  - D. The splenic vein runs along the upper border of the pancreas.
  - E. It is related posteriorly to the last two ribs.
- 18. Regarding the abdominal part of the esophagus:
  - A. It enters the abdomen by passing through the left crus of the diaphragm.
  - B. It is supplied by the short gastric arteries.
  - C. It is a site for portosystemic anastomosis.
  - D. It pierces the diaphragm slightly to the right of the median plane.
  - E. The right vagus nerve lies on its anterior surface.
- 19. The following structure lie posterior to the stomach, **EXCEPT**:
  - A. Diaphragm.
  - B. Left supra renal gland.
  - C. Greater sac.
  - D. Transverse mesocolon.
  - E. Pancreas.

20. Regarding the thoracic duct all of the following statements are true, **<u>EXCEPT</u>**:

- A. It ascends to the thorax through the esophageal opening of the diaphragm.
- B. It ascends on the right side of the descending thoracic aorta.
- C. It crosses the middle line behind the esophagus.
- D. It conveys all lymph from the lower limb.
- E. It conveys lymph from the left upper limb.
- 21. Regarding the thoracic part of the sympathetic trunk, choose the **INCORRECT** statement:
  - A. It is continuous above with the cervical part of the sympathetic trunk.
  - B. It is most laterallay placed structure in the mediastinum.
  - C. It descends on the shafts of the ribs.
  - D. It often possesses 11 ganglia.
  - E. The first ganglion is often fused with the inferior cervical ganglion.
- 22. Regarding the aorta choose the **INCORRECT** statement:
  - A. The ascending aorta lies within the fibrous pericardium.
  - B. The aortic arch lies behind the manubrium sterni.
  - C. The descending aorta lies in the posterior mediastinum.
  - D. The aortic arch lies in the superior mediastinum.
  - E. The ascending aorta lies in the anterior mediastinum.

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- 23. The descending thoracic aorta gives all of the following arteries, **<u>EXCEPT</u>**:
  - A. Subcostal.
  - B. First posterior intercostal.
  - C. Esophageal.
  - D. Bronchial.
  - E. Pericardial.
- 24. Regarding the phrenic nerves, choose the **<u>INCORRECT</u>** statement:
  - A. They arise from the dorsal rami of C3, 4 & 5 in the neck.
  - B. The left nerve descends along the left subclavian vein.
  - C. They are the sole nerve supply of the diaphragm.
  - D. They carry sensory fibers from the fibrous pericardium.
  - E. They descend infront of the lung root.
- 25. Pyramidalis muscle is supplied by:
  - A. Iliohypogastric nerve.
  - B. Ilioinguinal nerve.
  - C. Subcostal nerve.
  - D. Genitofemoral nerve.
  - E. 10<sup>th</sup> intercostal nerve.

## 26. The spermatic cord contains all of the following structures, **EXCEPT**:

- A. Pampiniform plexus of veins.
- B. Testicular artery.
- C. Genital branch of the genitofemoral nerve.
- D. Vas deference.
- E. Ilioinguinal nerve.
- 27. In tapping of a Hydrocele, he needle will penetrate all of the following layers, **EXCEPT**:
  - A. Skin.
  - B. Dartos muscle.
  - C. Colles' fascia.
  - D. Tunica albuginea.
  - E. Parietal layer of the tunica.
- 28. Penetrating wound close to the lower part of the right border of the body of the sternum would most likely damage the:
  - A. Right ventricle.
  - B. Left atrium.
  - C. Right atrium.
  - D. Left ventricle.
  - E. Pulmonary artery.
- 29. Cardiac pain is mediated through:
  - A. Carotid branch of the glossopharyngeal nerve.
  - B. Greater splanchinc nerve.
  - C. Phrenic nerve.
  - D. Vagus nerve.
  - E. Upper four thoracic spinal nerves.
- 30. Regarding the pericardium, all of the following are correct, **<u>EXCEPT</u>**:
  - A. The fibrous pericardium is fused with the central tendon of the diaphragm.
  - B. The oblique sinus of the pericardium lies in front of the posterior mediastinum.
  - C. The transverse sinus of the pericardium lies behind the aorta and the pulmonary trunk.
  - D. The fibrous pericardium is innervated by the phrenic nerve.
  - E. The parietal layer of the pericardium is innervated by the vagus nerve.