# e-Anatomy Paper 2 Exam

Monday, 5 September 2016

## Question 1:

Frontal and lateral Y radiographs of the right shoulder. Label the structures 1-16. Please be specific. **(1/2 mark each)** 

## Question 2:

Transverse T1 weighted-image of the left mid forearm.

- a) Name structures A, B, C and D. (2 marks)
- b) What are the attachments, innervation and actions of muscle C? (6 marks)
- c) What are the other two muscles in the same muscular compartment as structure C?(2 marks)
- d) What is the innervation structure B? (1 mark)
- e) Where does structure D begin proximally? (1 mark)

#### Question 3:

Name five (5) common or important variants of the carpal bones. (5 marks)

## Question 1:

Two transverse ECG-gated coronary artery CT images with intravenous contrast. Label the structures 1-16. Please be specific. (1/2 mark each).

## **Question 2**

Diagram of the tracheobronchial tree (anterior).

- a) Name structures A, B, C and D. (2 marks)
- b) What vertebral level is structure B usually located and name 3 other anatomical landmarks at the level? (4 marks)
- c) Describe 3 differences between structures A and D. (3 marks)
- d) What are the segments of structure D? (3 marks)

#### Question 3:

Name five (5) common or important variants of the pulmonary veins. (5 marks)

#### Question 1:

Two sagittal abdominal CT images with intravenous contrast in portal venous phase. Label the structures 1-16. Please be specific. **(1/2 mark each)** 

#### Question 2:

Oblique epigastric ultrasound.

- a) Name structures A, B, C and D. (2 marks)
- b) Name the boundaries of the epiploic foramen (of Winslow). (4 marks)
- c) Which liver segments are located between the right and middle hepatic veins? (1 mark)
- d) Which liver segments does the left hepatic vein drain? (2 marks)
- e) What peritoneal reflection separates segments 2 and 3 from segment 4? (1 mark)
- f) Which hepatic vein(s) drain segment 1? (1 mark)
- **g)** What structures define the horizontal plane that divides the superior and inferior liver segments? **(1 mark)**

#### Question 3:

Name five (5) common or important variants of the pancreatic ducts. (5 marks)

## Question 1:

Lateral angiogram of the head and face. Label the structures 1-16. Please be specific. (1/2 mark each)

### Question 2:

Facial dissection specimen photograph.

- a) Name the labelled structures A, B, C and D. (2 marks)
- b) Which cranial nerve passes through structure D and what are its branches in the face? (6 marks)
- c) Where does structure C enter the oral cavity? (1 mark)
- d) What is the first order lymph node draining the skin of structure A? (1 mark)
- e) What are the superior and inferior borders of the cervical lymph node level III (3)? (2 marks)

## Question 3:

Name five (5) common or important variants of the thyroid gland excluded vascular variants. (5 marks)

#### Question 1:

Sagittal T2 of the spine. Label the structures 1-16. Please be specific. (1/2 mark each)

#### Question 2:

Diagram of a typical intervertebral foramen.

- a) Name 2 ligaments attached to structure labelled 1. (2 marks)
- b) Name the structure labelled 2. (1 mark)
- c) What articulates with it? (1 mark)
- d) What type of joint is it? (1 mark)
- e) Describe the movement of the joint. (1 mark)
- f) What is the sensory nerve supply of this joint? (1 mark)
- g) Name the inner and outer parts of the structure labelled 3. (2 marks)
- h) This image shows the L2 and L3 vertebrae. What level is this nerve root labelled 4? (1 mark)
- i) Describe the venous drainage of the structure labelled 5. (2 marks)

#### Question 3:

- a. List the vertebral levels of the conus medullaris in the foetus, neonate and adult. (3 marks)
- b. Which side and level does the artery of Adamkiewicz most commonly arise? (2 marks)

## Question 1:

Transverse non contrast CT images of the head. Label the structures 1-16. Be specific. (1/2 mark each)

## Question 2:

Coronal T1 weighted-image of the orbits.

- a) Name the labelled structures A, B, C and D. (2 marks)
- b) Which nerves enter the orbit through the tendinous annulus of Zinn? (5 marks)
- c) Structure B passes through which skull foramen and with which vessel? (2 marks)
- d) Which nerve innervates structure C? (1 mark)
- e) Which sulci separate structure D from the parietal and temporal lobes? (2 marks)

## Question 3:

Name five (5) common or important variants of the corpus callosum. (5 marks)

## Question 1:

Coronal and transverse proton density MRI of the right ankle. Label the structures 1-16. Please be specific. (1/2 mark each)

## Question 2:

Transverse T2 fat sat MRI of the right knee.

- a) Label structures A, B, C and D. (2 marks)
- b) What are the boundaries of the popliteal fossa? (4 marks)
- c) List the contents of the popliteal fossa. (4 marks)
- d) What are the branches of the structure labelled E? (2 marks)

## Question 3:

Name five (5) common or important variants of the superficial venous drainage of the lower limb. **(5 marks)** 

## Question 1:

Transvaginal pelvic ultrasound and AP hysterosalpingogram. Label the structures 1-16. Please be specific. (1/2 mark each)

## Question 2:

Testicular ultrasound.

- a) Label structures A, B, C and D. (2 marks)
- b) List 2 principal arteries that supply C and D and state their usual origins. (4 marks)
- c) List the contents of the spermatic cord. (4 marks)
- **d)** What is the female equivalent of the spermatic cord in the inguinal canal and where does it attach? **(2 marks)**

## Question 3:

List five (5) common or important uterine variants. (5 marks)