# Anatomy Paper 2 Exam

Monday, 9 September 2019

Please write your answers in the books provided, starting each question on a new page.



## Question 1:

Transverse MRI brain T2-weighted images (2 images)

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

#### Question 2: Transverse T2WI MRI of the brain

- a) Name the structure labelled A. Where does it arise? What are its tributaries? Where does it terminate? (3 marks)
- b) Name the structure labelled B? What is its origin? Where is it located? What does it drain? (3 marks)
- c) Which transverse sinus does structure A and B most commonly drain into?(2 marks)
- d) Name the structure labelled C. What bony landmark is it related to? (1 mark)
- e) Name the structure labelled D. What structures does it drain? (2 marks)
- f) What does the inferior anastomotic vein (of Labbe) drain into? (1 mark)

#### Question 3:

Name five (5) common variants of the circle of Willis. (5 marks)

## Question 1:

Transverse CT images of the temporal bone (3 images)

Label the structures 1-16. Be specific. (1/2 mark each)

## Question 2:

- a) Name the structure labelled A.What are it's two (2) parts called?(3 marks)
- b) Name the structure labelled B. What attaches C to the lateral margins of B?(2 marks)
- c) Name the structure labelled C. What is its midline attachment? (2 marks)
- d) Name the structure labelled D.(1 mark)
- e) Describe the innervation of the larynx.(4 marks)

## Question 3:

- a) Name three (3) common or important variants of the thyroid gland (excluding vascular variants). (3 marks)
- **b)** Name two (2) common or important variants of the parathyroid glands (excluding vascular variants). **(2 marks)**

## Question 1:

Label the structures 1-16. Be specific. (1/2 mark each)

#### Question 2:

Frontal selective thoracic spinal angiogram with the catheter in the left T12 branch

- a) Name the vessel labeled A and what side and level does it typically arise from? (3 marks)
- b) Name the vessel labeled B. (1 mark)
- c) Which part of the spinal cord does the posterior spinal arteries supply? (1 mark)
- d) Describe the origin and course of the anterior spinal artery. (2 marks)
- e) Which arteries give rise to the segmental medullary and radicular arteries? (5 marks)

#### Question 3:

Name five (5) common or important variants of the thoracic vertebrae. (5 marks)

## Question 1:

Label the structures 1-16. Be specific. (1/2 mark each)

## Question 2:

- a) What is the segment and lobe labelled A? (1 mark)
- b) What is the structure labelled B and what two structures does it separate? (1 mark)
- c) What is the structure labelled C and what two structures does it separate? (1 mark)
- d) What is the segment and lobe labelled D? (1 mark)
- e) Name the segments of the left upper lobe. (4 marks)
- f) Name the segments of the left lower lobe. (4 marks)

## **Question 3:**

List five (5) common or significant variants of aortic arch branches. (5 marks).

## Question 1:

Label the structures 1-16. Be specific. (1/2 mark each)

## Question 2:

- a) Name the labelled structures. (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 structure 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 pancreas and its ducts. (5 marks)

## Question 1:

Label the structures 1-16. Be specific. (1/2 mark each)

## Question 2:

Transverse 10 minute-delayed phase CT of the pelvis.

- a) Describe the innervation of structure A.(4 marks)
- b) What is structure B? Describe its arterial supply. (5 marks)
- c) What is structure C? Describe its lymphatic drainage.(3 marks)

## **Question 3:**

Name five (5) common or important variants of the male gonads and their development. (5 marks)

## Question 1:

Frontal and lateral Y radiographs of the right shoulder.

Label the structures 1-16. Be specific. (1/2 mark each).

## Question 2:

Transverse diagram of the wrist.

- a) Name the structure labelled A and list its attachments. (3 marks)
- b) What is structure B and describe its action/s? (2 marks)
- c) Name the structure labelled C and list the muscles it innervates in the hand. (5 marks)
- d) What is structure D and describe its action/s? (2 marks)

# Question 3:

Name five (5) common or important variants of the arterial supply of the hand. (5 marks)

## Question 1:

Coronal and transverse proton density MRI of the right ankle.

Label the structures 1-16. Be specific. (1/2 mark each)

## Question 2:

- a) What is A and what attaches to it? (2.5 marks)
- b) Describe the blood supply to structure B. (4 marks)
- c) What is C? What attaches to it and what is its action/s?(2.5 marks)
- d) Which muscles attach to D? Which nerve innervates these muscles? (3 marks)

# Question 3:

List five (5) common or important variants of the sciatic nerve? (5 marks)