

The Royal Australian and New Zealand College of Radiologists[®]

Anatomy Paper 2 Exam

Monday, 4 September 2017



Question 1:

Label the structures 1-16. Be specific (each structure is worth 0.5 marks, total marks 8).

Image: foot / ankle

Question 2:

Image: groin

- a. Name the structure labelled A. Where is its distal attachment? (2 marks)
- b. Name the structure labelled B. At what anatomical landmark is its origin? (2 marks)
- c. Name the structure labelled C. At what anatomical landmarks are its origin and termination? (3 marks)
- A. Name the structure labelled D. What nerve innervates it and what are its roots?
 (2 marks)
- e. Describe the blood supply to the femoral head. (3 marks)

Question 3:

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

Question 1:

Label the structures 1-16. Be specific (each structure is worth 0.5 marks, total marks 8).

Image: cervical spine

Question 2:

Image: Spine

- a. Name the structures labelled A, B, C and D (level not required) (2 marks)
- List the contents of a typical intervertebral (exit) foramen at the level of the mid lumbar spine. (6 marks)
- c. Which spinal nerve exits between the C2 and C3 vertebrae? (1 mark)
- **d.** Which spinal nerve exits between the C7 and T1 vertebrae? **(1 mark)**
- e. Which spinal nerve exits between the T6 and T7 vertebrae? (1 mark)
- f. Which spinal nerve exits between the L5 and S1 vertebrae? (1 mark)

Question 3:

List five (5) common or important variants of the arterial supply to the spinal cord. (5 marks)

Question 1:

Label the structures 1-16. Be specific (each structure is worth 0.5 marks, total marks 8).

Image: Chest

Question 2:

Image: pulmonary veins

- a. Name the structures labelled A, B, C and D (2 marks)
- b. What does structure B supply / drain? (1 mark)
- c. What does structure C supply / drain? (1 mark)
- d. Describe the course of the azygos vein (5 marks)
- e. Describe the tributaries of the azygos vein (3 marks)

Question 3:

Name five (5) common or important variants of the coronary arteries. (5 marks)

Question 1:

Label the structures A-P. Be specific (each structure is worth 0.5 marks, total marks 8). Image: pelvis / ureter

Question 2:

Image: urinary bladder

- **a.** This is a cut dissection specimen photograph of the urinary bladder. Is the wall of the bladder viewed the anterior or posterior wall? **(1 mark)**
- b. Name the structures labelled A, B, C and D. (2 marks)
- c. Name the structure outlined by a triangle formed by structures B, C and D and how does it differ from the rest of the internal surface of the urinary bladder? (3 marks)
- d. Describe the blood supply to the urinary bladder. (6 marks)

Question 3:

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

Question 1:

Label the structures 1-16. Be specific **(each structure is worth 0.5 marks, total marks 8).** Image: abdominal

Question 2:

Image: liver segments diagram

- a. Name the structures labelled 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 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 suprarenal arteries. (5 marks)

Question 1:

Label the structures 1-16. Be specific **(each structure is worth 0.5 marks, total marks 8).** Image: head, including cav sinuses

Question 2:

Image: brain

- a. List the arteries that supply the regions of the cerebral cortex labelled A, B and C. (3 marks)
- b. Describe the arterial blood supply to the structure labelled D. (3 marks)
- c. Describe the arterial blood supply to the structure labelled E. (2 marks)
- d. Describe the four parts of the middle cerebral artery (excluding branches). (4 marks)

Question 3:

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

Question 1:

Label the structures 1-16. Be specific (each structure is worth 0.5 marks, total marks 8). Image: elbow

Question 2:

Image: Paediatric elbow

- a. List the average age at which each of the secondary ossification centres appear in order. (6 marks)
- **b.** List six structures that originate from the structure labelled A. **(6 marks)**

Question 3:

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

Question 1:

Label the structures 1-16. Be specific (each structure is worth 0.5 marks, total marks 8). Image: larynx

Question 2:

Image: thyroid

- a. Name the structures labelled A, B, C and D. (2 marks)
- b. Describe the arterial blood supply to the thyroid gland. (4 marks)
- c. What neck space is the structure B in and what are the contents of the space?

Question 3:

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