



The Royal Australian and New Zealand
College of Radiologists®

Anatomy

Paper 2 Exam

Monday, 26 March 2018



CASE 1

Question 1: Pelvis

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

Question 2:

- a. What is the structure labelled A and which bones contribute to it? **(2 marks)**
- b. What attaches to structure B? **(1 marks)**
- c. What is the structure labelled C? **(0.5 marks)**
- d. What is D and what attaches to it? **(3 marks)**
- e. What structures exit the pelvis through the greater sciatic foramen? **(5.5 marks)**

Question 3:

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

CASE 2

Question 1: Lower Limb

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

Question 2:

- a. Name structure A. (1 mark)**
 - i. What is it's distal attachment? **(1 mark)**
 - ii. What movement does it limit? **(1 mark)**
 - iii. Name two ligaments that run adjacent to it. **(1 mark)**

- b. Name structure B. (1 mark)**
 - i. What is it's distal attachment? **(1 mark)**
 - ii. What movement does it limit? **(1 mark)**

- c. Name structure C. (1 mark)**
 - i. What is formed by it's distal attachment? **(1 mark)**
 - ii. What does it join with at it's distal attachment? **(1 mark)**

- d. Name structure D. (1 mark)**
 - i. What is it's action? **(1 mark)**

Question 3:

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

CASE 3

Question 1: Abdomen

Abdominal radiographs in three (3) different patients. Label the structures 1-16. Please be specific **(each structure is worth 0.5 marks, total marks 8)**.

Question 2:

- a. Which retroperitoneal space is the structure labelled A located? Describe this space's boundaries. **(6.5 marks)**
- b. Describe the communications of the retroperitoneal space that B is located in. **(4 marks)**
- c. What does structure C supply / drain? **(1 mark)**

Question 3:

Name five (5) common or important variants of the superior mesenteric artery **(5 marks)**

CASE 4

Question 1: Back/Spine

Transverse T2 weighted-images through C1 and C2. Label the structures 1-16. Please be specific **(each structure is worth 0.5 marks, total marks 8)**.

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)**
 - I. What articulates with it? **(1 mark)**
 - II. What type of joint is it? **(1 mark)**
 - III. Describe the movement of the joint. **(1 mark)**
 - IV. What is the sensory nerve supply of this joint? **(1 mark)**
- c. Name the inner and outer parts of the structure labelled 3. **(2 marks)**
- d. This image shows the L2 and L3 vertebrae. What level is this nerve root labelled 4? **(1 mark)**
- e. Describe the venous drainage of the structure labelled 5. **(2 marks)**

Question 3:

Name five (5) common or important variants of the sacrum **(5 marks)**

CASE 5

Question 1: Chest

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

Question 2:

- a. Name the structure A causing this depression. Name the 3 other sites of narrowing of the oesophagus? (2 marks)

- b. Describe the course of the oesophagus in the chest. (6 marks)

- c. Describe the lymphatic drainage of the oesophagus in the chest. (4 marks)

Question 3:

- a. Name three (3) common or important variants of the lung fissures. **(3 marks)**

- b. Name two (2) common or important variants of the major bronchi. **(2 marks)**

CASE 6

Question 1: Neck

Label the structures 1-16. Please be specific with both the part of the tooth and the tooth number **(each structure is worth 0.5 marks, total marks 8)**.

Question 2:

- a. Name the structure labelled A. What are its 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 marks)**
- e. Describe the innervation of the larynx. **(4 marks)**

Question 3:

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

CASE 7

Question 1: Upper Limb

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

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 structures 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 glenoid labrum and labral biceps complex **(5 marks)**

CASE 8

Question 1: Head

Midsagittal T1 weighted-image with IV contrast. Label the structures 1-16. Please be specific **(each structure is worth 0.5 marks, total marks 8)**.

Question 2:

- a. Name structure A **(1 mark)**
- b. Describe the course of structure A **(4 marks)**
- c. Name 4 structures embedded in the parotid gland **(4 marks)**
- d. Describe the differences in secretions produced by the major salivary glands **(3 marks)**

Question 3:

List five (5) common or important variants of the ophthalmic artery. **(5 marks)**