Anatomy Paper 2 Exam

Monday, 29 March 2021
Case 1

Question 1:
Midsagittal T1 weighted-image MRI with IV contrast. Label the structures 1-16. Please be specific. (1/2 mark each)

Question 2:

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 or important variants of the lateral ventricles.
Case 2

Question 1:
Label the structures 1-16. Be specific with both the part of the tooth and the tooth number. (1/2 mark each)

Question 2:

Transverse MRI T2 SPACE of the internal auditory canals. (12 marks)

a. What is the circled structure A (be specific)? (1 mark)
b. What branch from structure B passes into the internal auditory canal? (1 mark)
c. What other structures pass through the internal auditory canal? (3 marks)
d. What structures form the horizontal and vertical divisions of the lateral portion of the internal auditory canal? (2 marks)
e. Describe the position of the structures in the lateral portion of the internal auditory canal? (4 marks)
f. What is structure C (be specific)? (1 mark)

Question 3:
Name five (5) common or important variants of the paranasal sinuses. (5 marks)
Case 3

Question 1:
Transverse T2 weighted-images MRI through C1 and C2. Label the structures 1-16. Be specific. (1/2 mark each)

Question 2:
Lateral diagram of the L2 and L3 vertebrae.

a. Name two ligaments attached to the structure labelled 1. (1 mark)

b. Name the structure labelled 2. (1 mark)
   What articulates with it? (1 mark)

c. What type of joint is it? (1/2 mark)

d. Describe the movement of the joint. (1/2 mark)

e. What is the sensory nerve supply of this joint? (2 marks)

f. Name the parts of the structure labelled 3. (1 mark)

g. This image shows the L2 and L3 vertebrae. What level is this nerve root labelled 4? (1 mark)

h. Describe the venous drainage of the anterior and posterior parts of structure 5. (4 marks)

Question 3:
Name five (5) common or important variants of lumbosacral segmentation. (5 marks)
Case 4

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

Question 2:
Barium swallow.

a. Name the structure labelled A causing this depression. Name the three other sites of normal 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:
Name five (5) common or important variants of the coronary arteries. (5 marks)
Case 5

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

Question 2:
Upper abdominal ultrasound.

   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 do 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 spleen. (5 marks)
Case 6

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

Question 2:
Scrotal ultrasound

a. Label structures A, B, C and D. (2 marks)

b. List the 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 distally? (2 marks)

Question 3:
Name five (5) common or important variants of the ureters. (5 marks)
Case 7

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

Question 2:
Oblique sagittal T1WI MRI of the shoulder.

a. What is the structure labelled A?
   What is its innervation and distal attachment?
   (3 marks)

b. What is the action of the structure labelled B?
   What is the segmental level of its nerve supply?
   (3 marks)

c. What is the structure labelled C?
   What is its innervation and distal attachment? (3 marks)

d. Which muscles attach to the structure labelled D? (3 marks)

Question 3:
Name five (5) common or important variants of the brachial artery. (5 marks)
Case 8

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

Question 2:
Transverse T2WI MRI with fat saturation 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:
List five (5) common or important variants of the sciatic nerve. (5 marks)