



**UNIVERSITI KUALA LUMPUR
ROYAL COLLEGE OF MEDICINE PERAK**

**FINAL EXAMINATION
JULY SEMESTER 2025**

COURSE CODE : RXD32102
COURSE NAME : FUNDAMENTAL OF SECTIONAL ANATOMY
PROGRAMME NAME : DIPLOMA IN MEDICAL IMAGING
DATE : 18 SEPTEMBER 2025
TIME : 2.00 P.M – 3.30 P.M
DURATION : 1 HOUR 30 MINUTES

INSTRUCTIONS TO CANDIDATES

1. Please read **CAREFULLY** the instructions given in the question paper.
2. This question paper has information printed on both sides of the paper.
3. This question paper consists of **TWO (2)** section; Section A and Section B.
4. Answer **ALL** questions in Section A. For Section B, answer **THREE (3)** questions **ONLY**.
5. Please mark/write your answers on the OMR answer script or answer booklet provided.
6. Answer **ALL** questions in English language **ONLY**.

THERE ARE 14 PAGES OF QUESTIONS, EXCLUDING THIS PAGE.

SECTION A: MULTIPLE CHOICE QUESTIONS (Total: 15 marks)**INSTRUCTION: Answer ALL questions.****Please use the objective answer sheet provided.**

1. Recognise the importance of multiple views in radiology.
 - A. To increase radiation dose.
 - B. To reduce time.
 - C. To improve localisation and three dimensional (3D) representation.
 - D. To limit patient movement.
2. Identify the body cavity that contains both the thoracic and abdominopelvic cavities.
 - A. Dorsal
 - B. Ventral
 - C. Cranial
 - D. Spinal
3. Recognise the structure labelled X in the computed tomography (CT) brain image below:



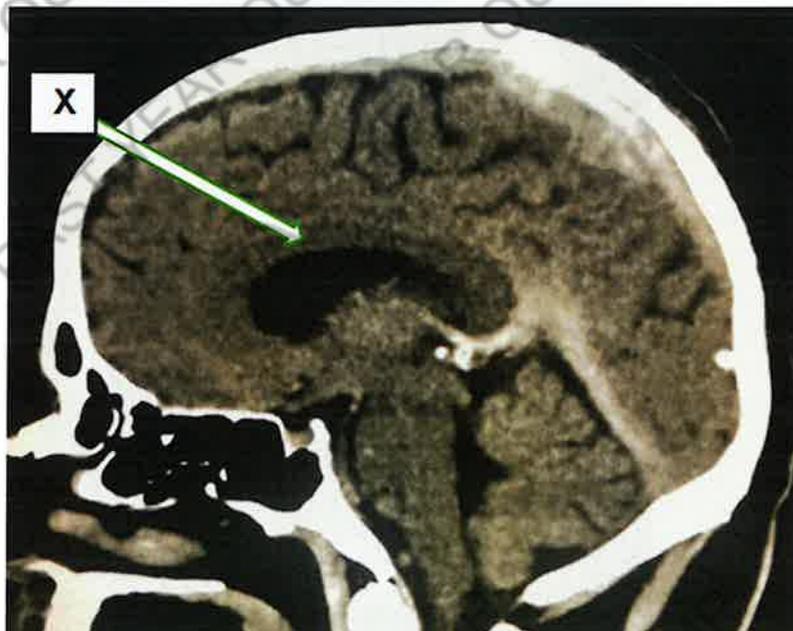
- A. Basal cistern
- B. Third ventricle
- C. Fourth ventricle
- D. Lateral ventricles

4. Recognise the structure labelled X in the CT brain image below:



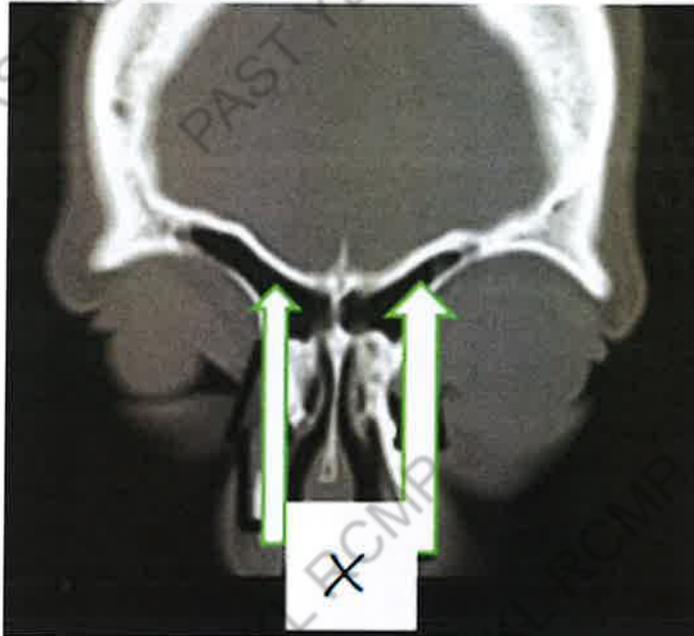
- A. Basal cistern
- B. Sylvian cistern
- C. Quadri-geminal cistern
- D. Inter-hemispheric cistern

5. Identify the structure labelled X in the CT brain image below:



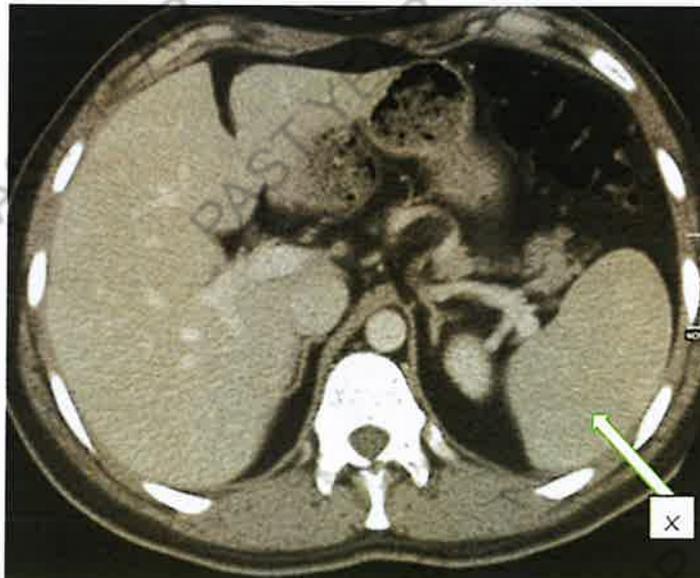
- A. Cerebrum
- B. Lateral ventricle
- C. Corpus callosum
- D. Medulla oblongata

6. Recognise the structure labeled X in the magnetic resonance imaging (MRI) para-nasal sinus (PNS) image below:



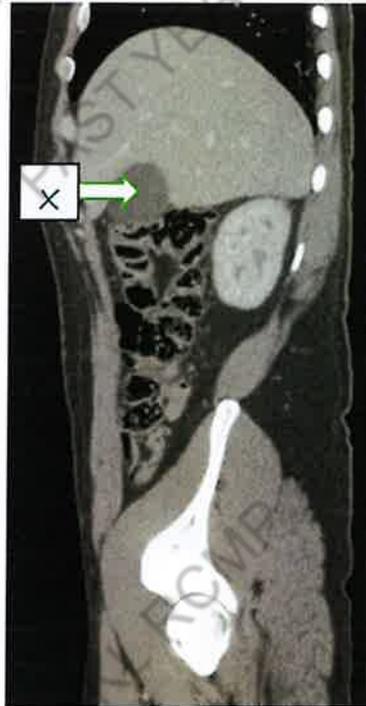
- A. Frontal sinus
- B. Ethmoid sinus
- C. Sphenoid sinus
- D. Maxillary sinus

7. Identify the structure labelled X in the CT abdomen image below:



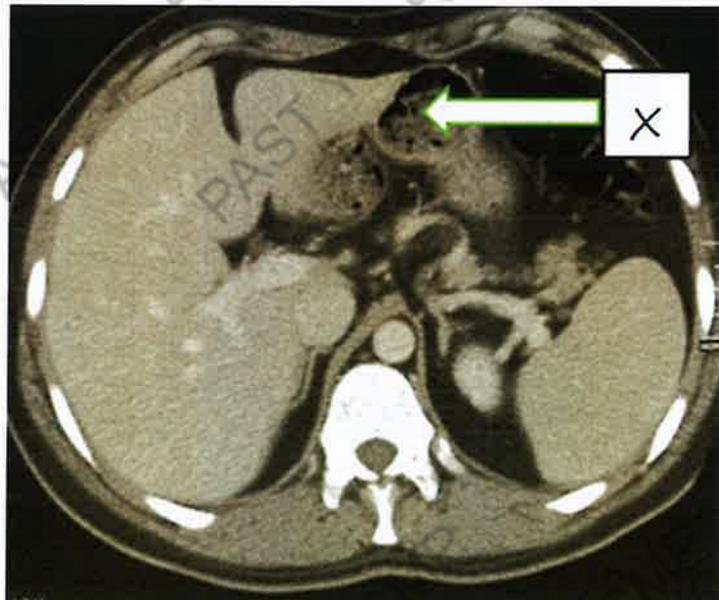
- A. Aorta
- B. Liver
- C. Spleen
- D. Gallbladder

8. Identify the structure labelled X in the CT abdomen image below:



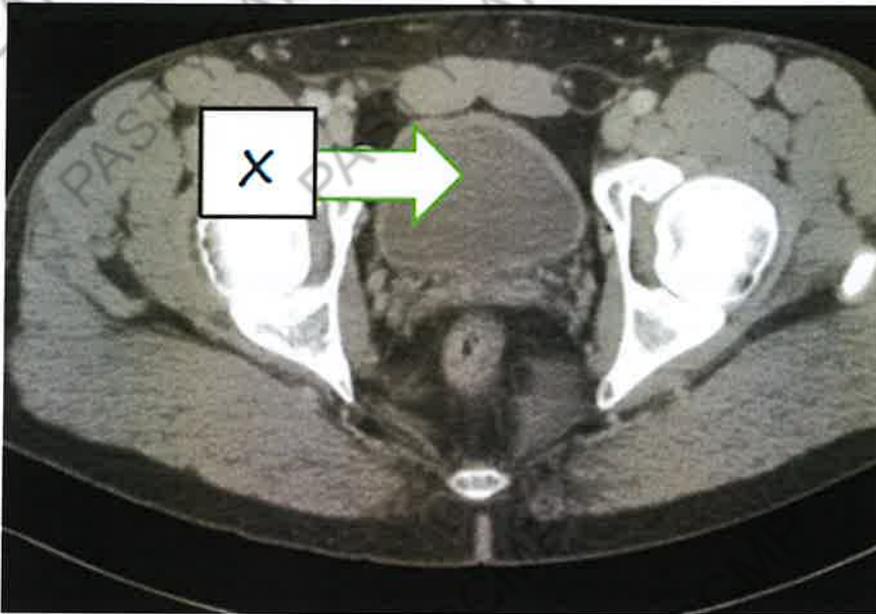
- A. Aorta
- B. Liver
- C. Spleen
- D. Gallbladder

9. Recognise the structure labelled X in the CT abdomen image below:



- A. Small intestine
- B. Ascending colon
- C. Transverse colon
- D. Descending colon

10. Identify the structure labelled X in the CT pelvis image below:



- A. Uterus
- B. Sigmoid
- C. Rectum
- D. Urinary bladder

11. Identify the structure labelled X in the CT pelvis image below:



- A. Ileum
- B. Cecum
- C. Colon
- D. Sigmoid

12. Identify the location of parotid gland.
- A. Posterior to mandible and anterior to sternocleidomastoid muscle (SCM).
 - B. Anterior to mandible.
 - C. Inferior to thyroid cartilage.
 - D. Superior to clavicle.
13. Recognise the structure that forms the superior boundary of the thorax.
- A. Diaphragm
 - B. Manubrium
 - C. Costal margin
 - D. Xiphoid process
14. Identify the anatomical structure that is central gelatinous part of the intervertebral disc.
- A. Annulus fibrosus
 - B. Nucleus pulposus
 - C. Hyaline cartilage
 - D. End plate
15. Recognise the location of anterior cruciate ligament (ACL) of the knee joint.
- A. Inside knee capsule
 - B. Outside knee capsule
 - C. Between tibia and fibula
 - D. In patellar tendon

SECTION B: MODIFIED ESSAY QUESTIONS (Total: 60 marks)

INSTRUCTION: This section consists of FOUR (4) modified essay questions (MEQ). You are required to answer ONLY THREE (3) questions in the answer booklet provided.

Question 1

(a) Referring to the Image A below:

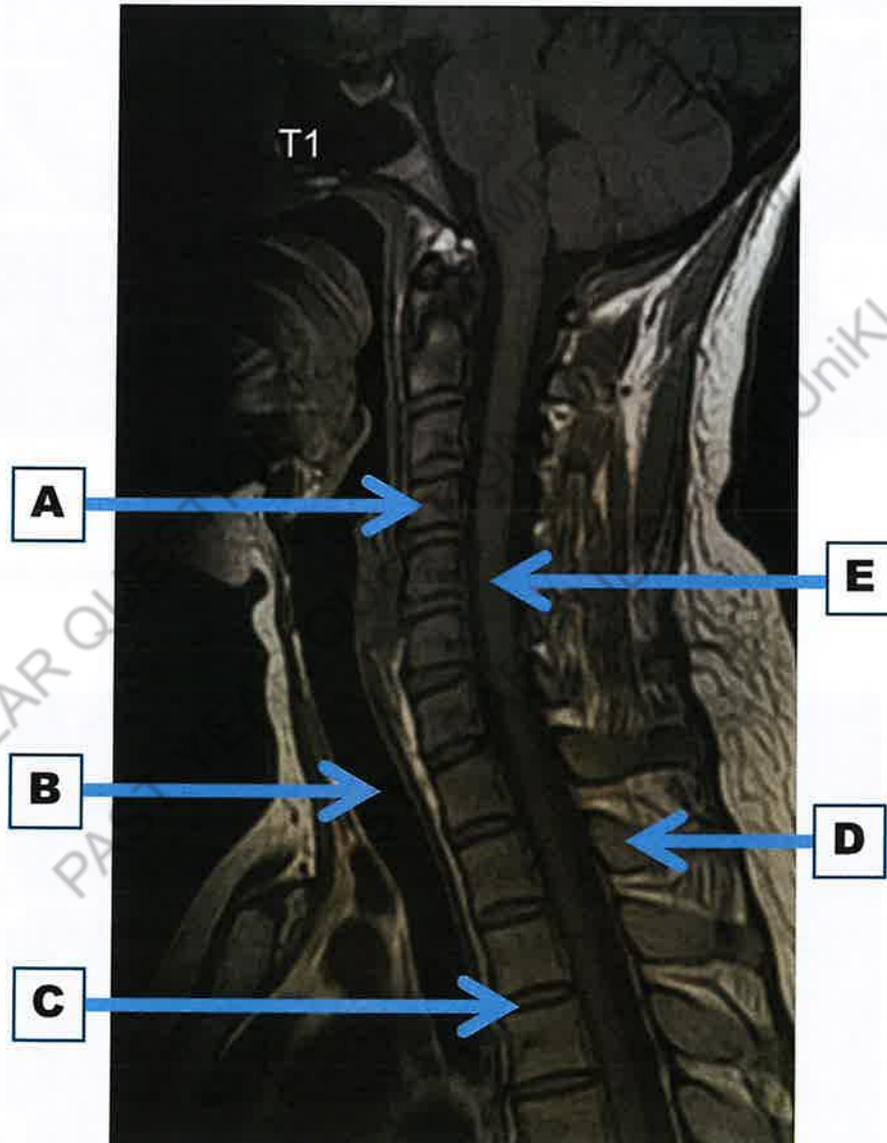
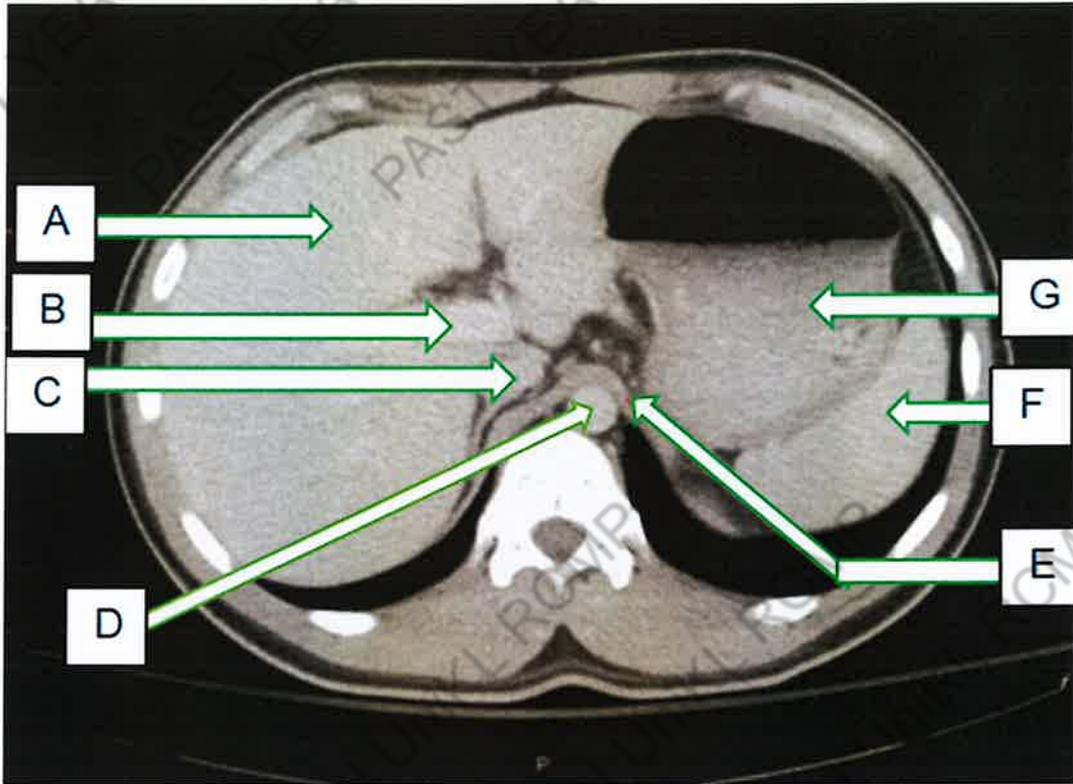


Image A

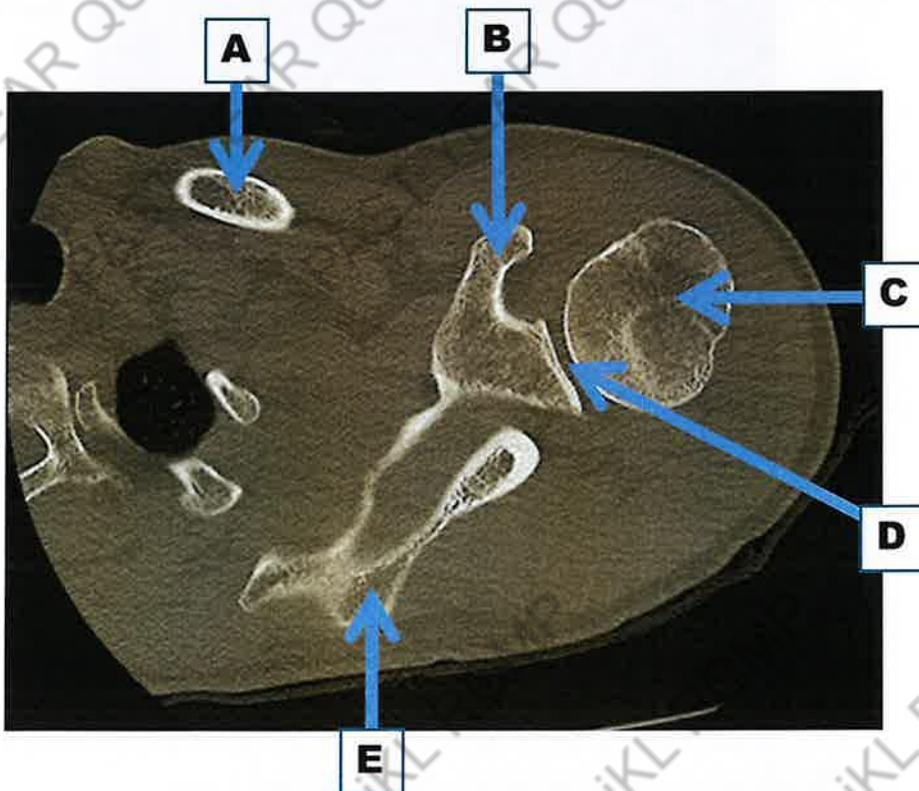
- i) Identify the imaging modality with its part of examination and imaging plane in full abbreviation. (3 marks)
- ii) Recognise the anatomical structures labelled A to E. (5 marks)

(b) Identify the anatomical structures labelled A to G in the CT abdomen image below:



(7 marks)

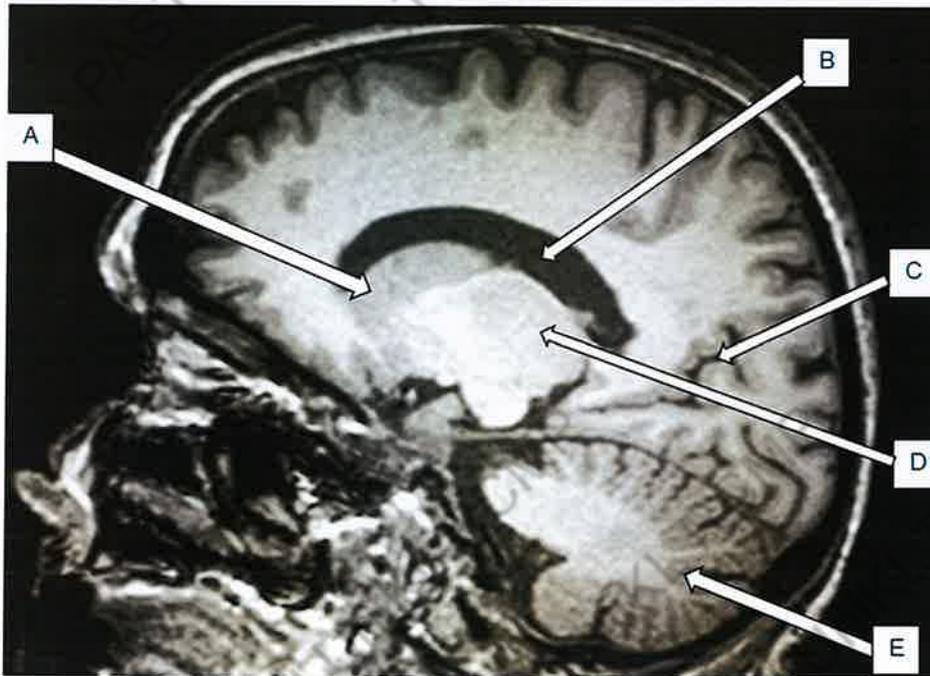
(c) Identify the anatomical structures labelled A to E in the CT shoulder joint image below:



(5 marks)

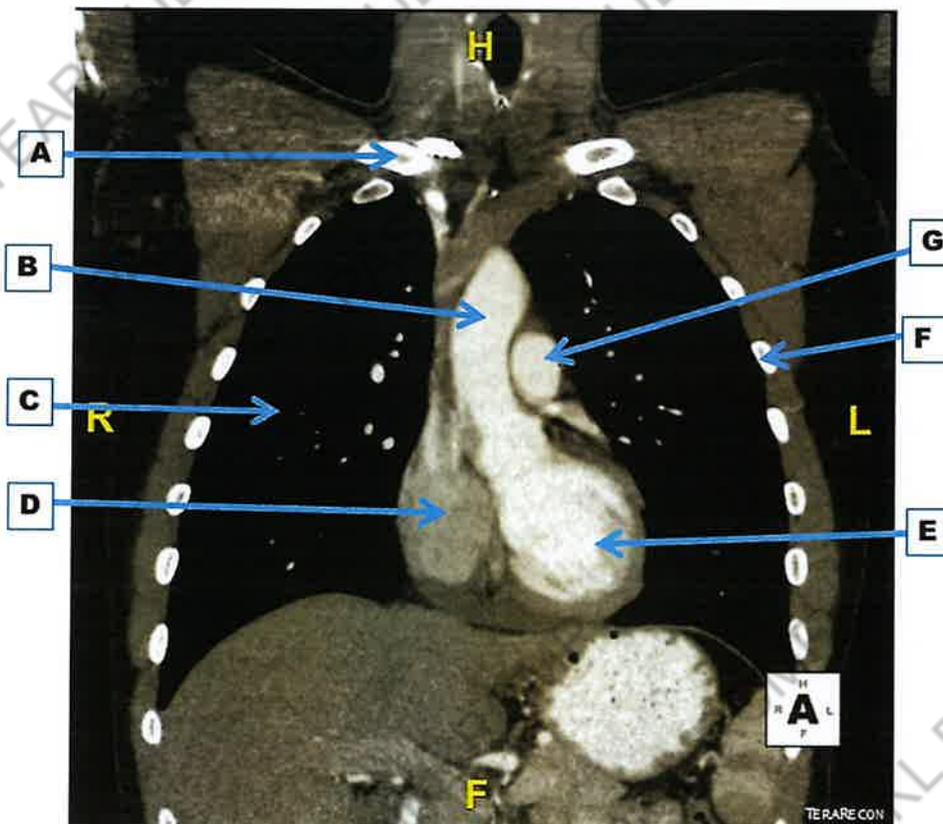
Question 2

(a) Identify the anatomical structures that labelled A to E in the MRI brain image below:



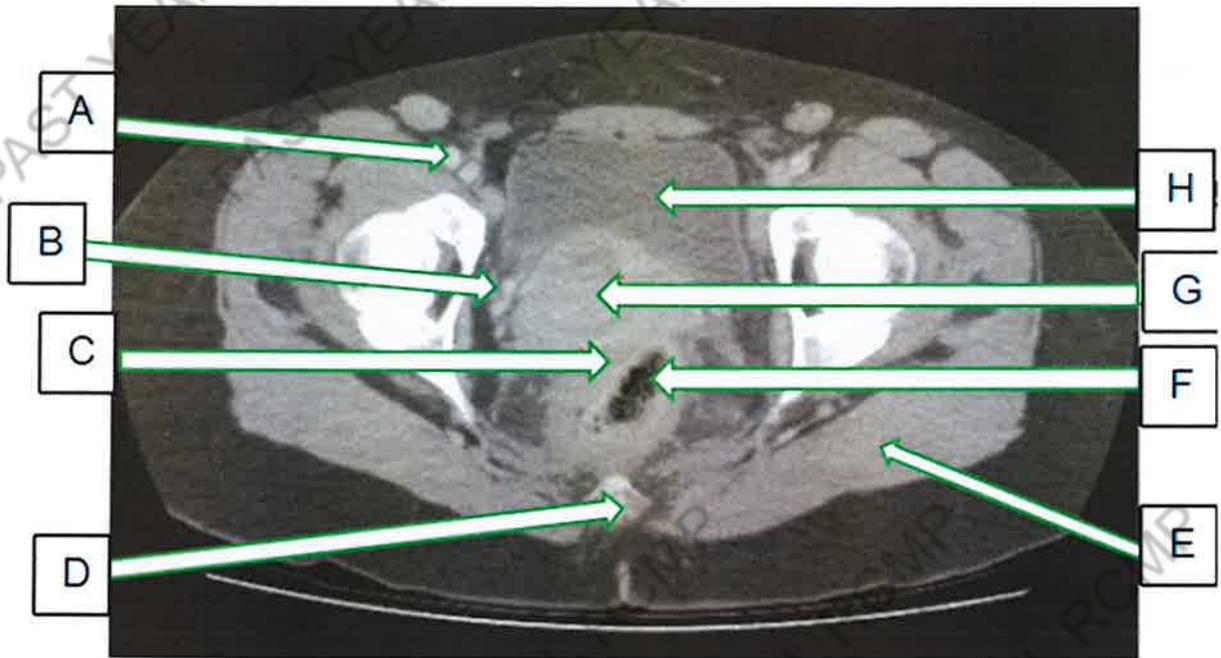
(5 marks)

(b) Recognise the anatomical structures that labelled A to G in the CT thorax image below:



(7 marks)

(c) Identify the anatomical structures labelled A to H in the CT female pelvis image below:



(8 marks)

Question 3

(a) By referring to Image B below:

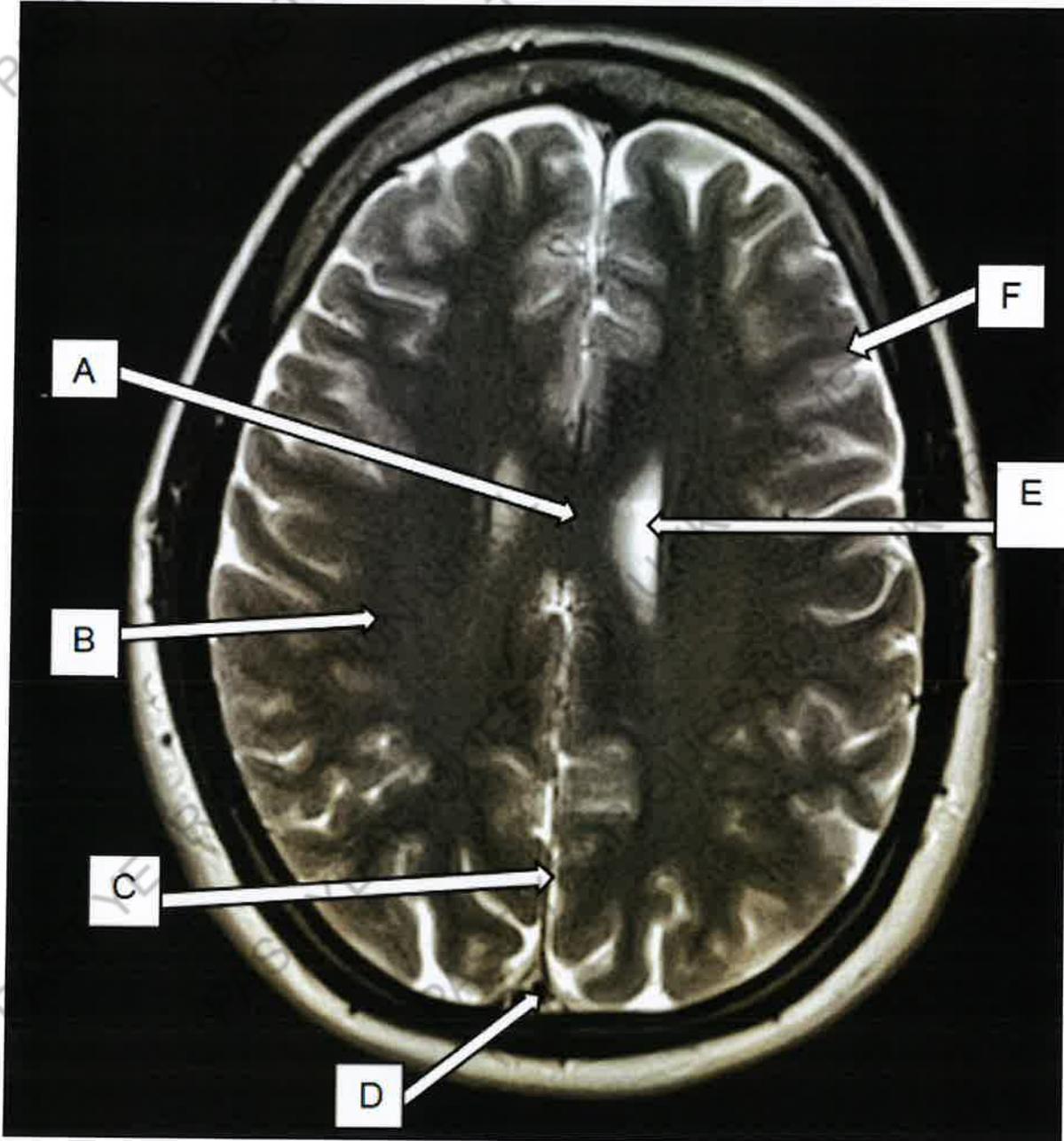
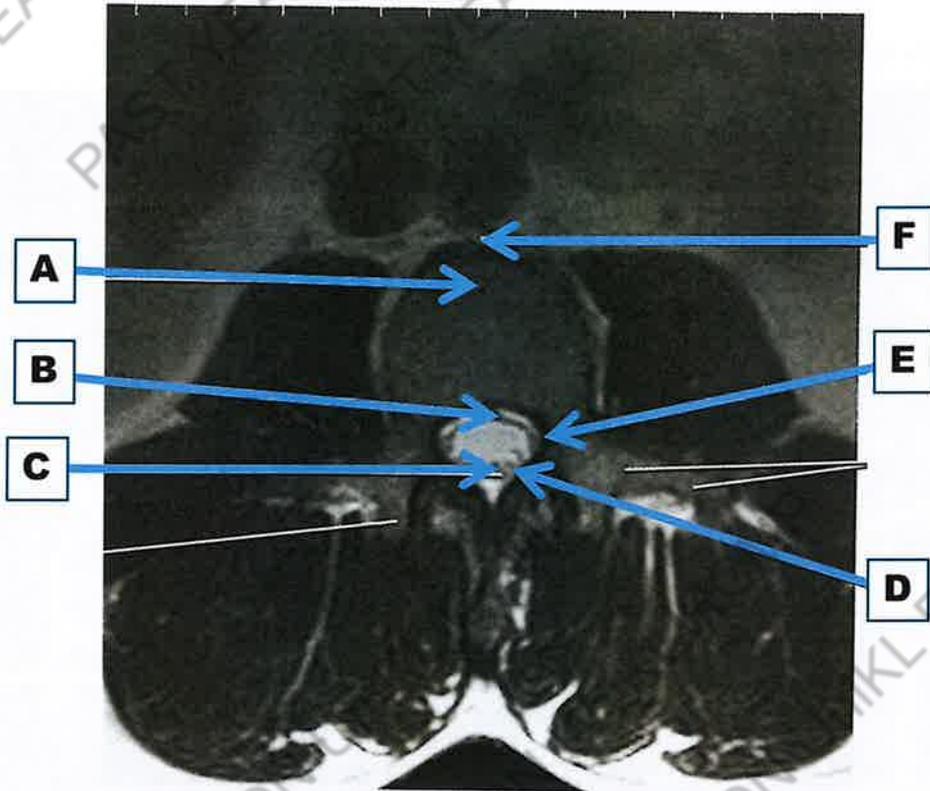


Image B

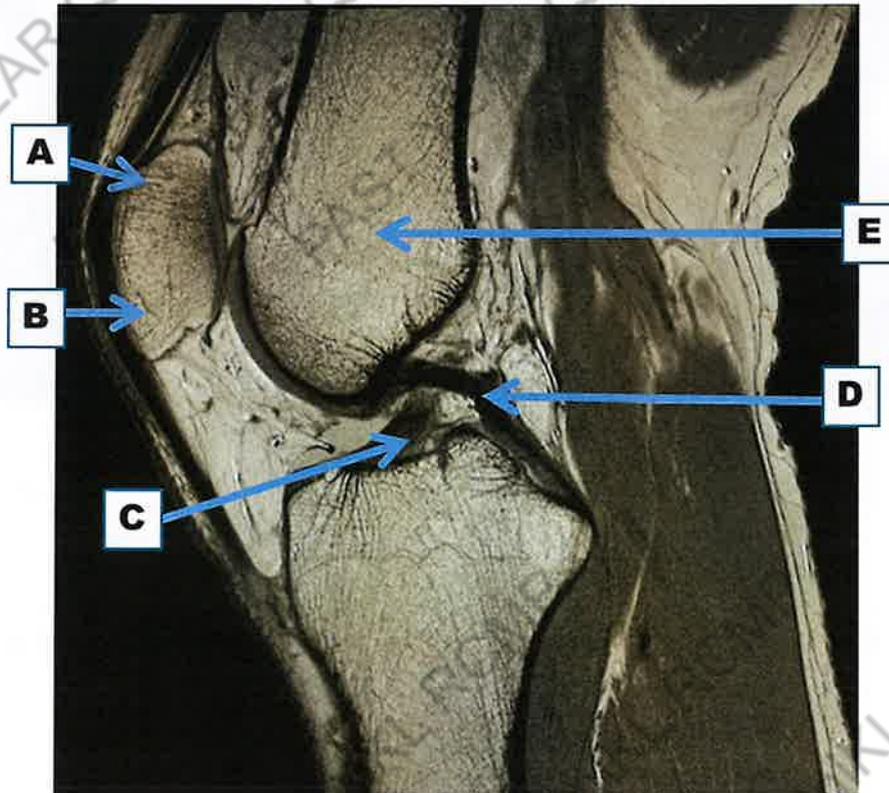
- i) Identify the imaging modality with its part of examination and imaging plane in full abbreviation. (3 marks)
- ii) Recognise the anatomical structures labelled A to F in Image B. (6 marks)

(b) Identify the anatomical structure labelled A to F in MR image of lumbar spine below:



(6 marks)

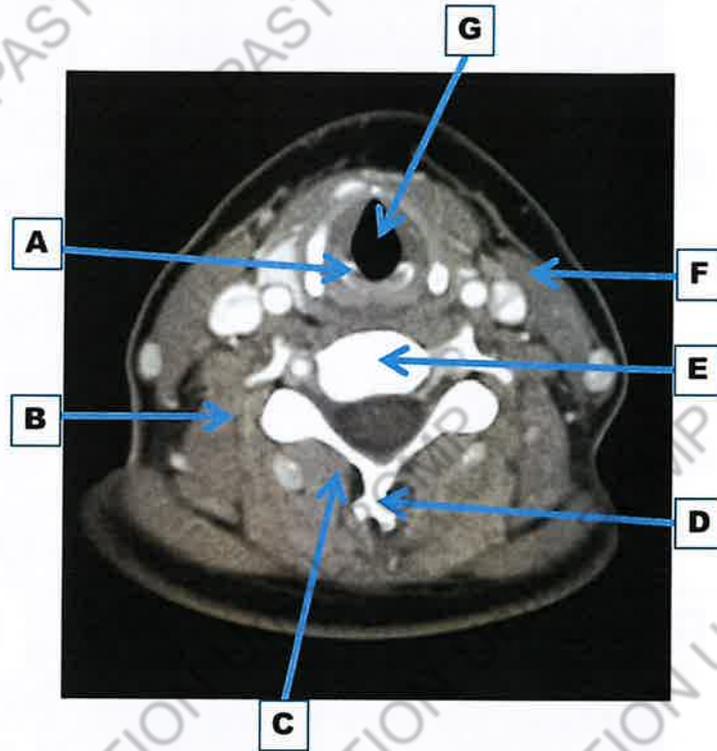
(c) Recognise the anatomical structure labelled A to E in MR image of knee joint below:



(5 marks)

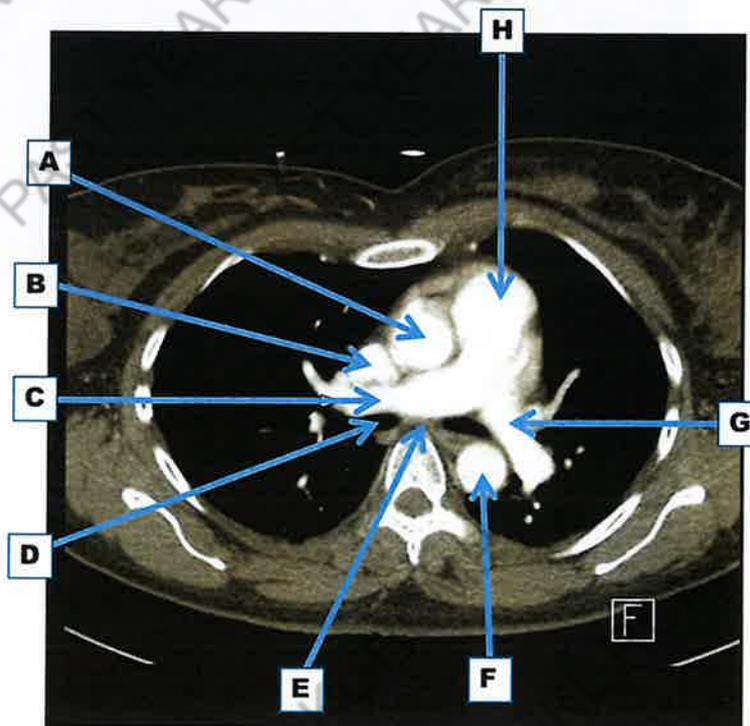
Question 4

(a) Identify the anatomical structures that labelled A to G in the CT neck image below:



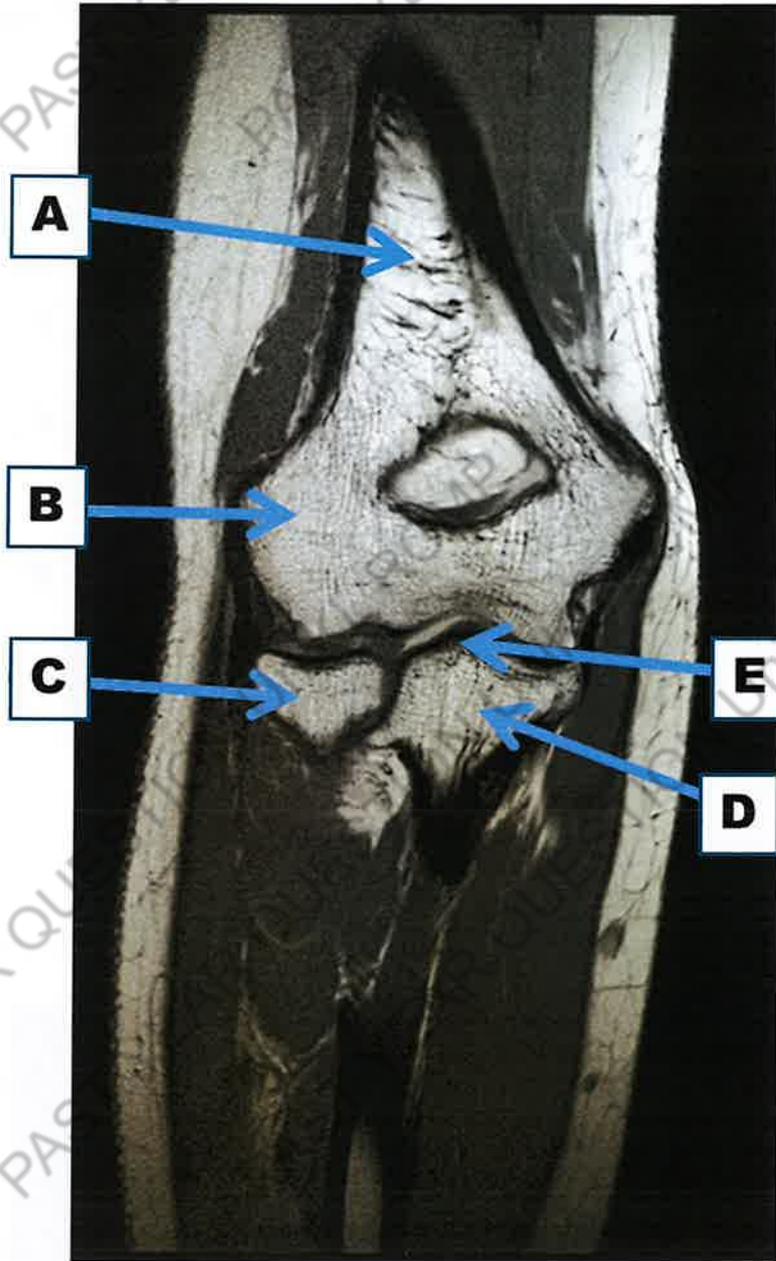
(7 marks)

(b) Recognise the anatomical structures labelled A to H in the CT thorax image below:



(8 marks)

- (c) Identify the anatomical structures that labelled A to E in the MR image of right elbow joint below:



(5 marks)

END OF EXAMINATION PAPER