



RAN-2406121301010501



Doctor of Medicine Examination August - 2026

Radio Diagnosis (Paper - I)

Time: 3 Hours]

[Total Marks: 100

સૂચના : / Instructions

(1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.

Fill up strictly the above details on your answer book

Seat No.:

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Student's Signature

Q.1. Discuss segmental anatomy of liver with a diagram of Couinaud classification. Enumerate various types of hepatobiliary contrast agents used in the radiology department. 20

Q.2.

1. What are the harmful effects of ionising radiation and the steps taken for protection in the radiology department? 15
2. Discuss principles of colour Doppler sonography. Discuss the role of colour and duplex doppler in the diagnosis of portal hypertension. 15

Q.3. 08 Marks each

1. PCPNDT Act
2. Role of tomosynthesis in breast imaging.
3. MR Elastography.
4. CT perfusion study in stroke imaging.
5. Factors affecting image quality in X-ray.

Q.4. 02 Marks each

1. Zero lead apron.
2. USG artefacts.
3. Enumerate any five embolic agents.
4. Explain DWI.
5. Anode heel effect

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Radio Diagnosis (Paper-II)
Time: 3 Hours]
[Total Marks: 100
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- (1) ઉપરોક્ત દશાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
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Seat No.:

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Student's Signature

- Q.1.** What is phakomatosis? Enumerate various phakomatosis. Describe any three in detail.

20
Q.2.

1. Investigate and discuss the role of radiologist for a 40 year old chronic smoker male with history of hemoptysis.
2. What is internal derangement of the knee joint ? Enumerate various osteochondral lesions. Describe any two in detail.

15
Q.3. 08 Marks each

1. BI-RADS
2. Discuss imaging features of lytic lesions in the Jaw.
3. Discuss Coronary artery anatomy and its congenital variations.
4. Role of imaging in unilateral proptosis.
5. Role of imaging in neonatal hypoxic ischemic encephalopathy.

Q.4. 02 Marks each

1. Scimitar syndrome.
2. Crazy paving pattern in HRCT thorax.
3. Bare orbit.
4. Madelung deformity.
5. Ivory vertebra.

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Doctor of Medicine Examination August - 2026

Radio Diagnosis (Paper-III)

Time: 3 Hours]

[Total Marks: 100

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- Q.1.** Describe anatomy of the adrenal gland. Discuss the role of imaging techniques in the diagnosis of adrenal lesions. 20
- Q.2.**
1. 28 years old male presented with chronic diarrhea and abdominal pain. Discuss imaging features of inflammatory bowel disease and differentiate ulcerative colitis from Crohn's disease. 15
 2. Discuss USG findings in ectopic pregnancy. Explain the role of the interventional radiologist in early pregnancy. 15
- Q.3. 08 Marks each**
1. AAST classification of splenic trauma.
 2. Role of radiology in evaluation of male infertility.
 3. Role of imaging in genitourinary tuberculosis.
 4. CT enteroclysis.
 5. MRCP in congenital pancreatic lesions.
- Q.4. 02 Marks each**
1. Putty kidney.
 2. Grading of placenta.
 3. Meckel's diverticulum.
 4. Seldinger technique.
 5. Draw and label any three congenital uterine anomalies.


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Radio Diagnosis (Paper-IV)
Time: 3 Hours]
[Total Marks: 100
સૂચના : / Instructions

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 Fill up strictly the above details on your answer book

Seat No.:

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Student's Signature

- Q.1.** Discuss the physics and principles of PET-CT. Describe the role of PET-CT in oncology imaging and its limitations. **20**
- Q.2.**
- Describe the principles and clinical applications of functional MR imaging. **15**
 - Discuss the role of AI in modern radiology practice. Describe its current clinical applications, advantages, limitations, and future prospects. **15**
- Q.3. 08 Marks each**
- HIFU.
 - Dual-energy CT.
 - Vertebroplasty.
 - Radiological intervention in stroke.
 - TACE.
- Q.4. 02 Marks each**
- Tissue harmonic imaging.
 - MRI findings in bone marrow pathology.
 - Pressure injector.
 - Enumerate conditions causing left-to-right and right-to-left shunts.
 - Cone-beam CT.