

**RADIO DIAGNOSIS****PAPER-IV**

TIME: 3 HOURS

RDG/D/20/40/IV

MAX. MARKS: 100

IMPORTANT INSTRUCTIONS

- You are provided with 5 answer sheet booklets. Each individual answer sheet booklet consists of 10 pages excluding the covering jackets.
- This question paper consists of 10 short note questions. Question paper is divided into 5 Parts - A, B, C, D and E, each part containing 2 questions.
- Answers to questions of part A, part B, part C, part D & part E are to be strictly attempted in a separate answer sheet booklet which must be later tagged together at the end of the exam.
- No additional supplementary answer sheet booklet will be provided.
- Answers to question(s) attempted on an answer sheet booklet for a different part will not be evaluated.
- Part A/Part B /Part C/Part D/Part E should be mentioned on the covering page of the respective answer sheet booklet.
- Attempt all questions in order.
- Each question carries 10 marks.
- Read the question carefully and answer to the point neatly and legibly.
- Do not leave any blank pages between two answers.
- Indicate the question number correctly for the answer in the margin space.
- Answer all the parts of a single question together.
- Start the answer to a question on a fresh page or leave adequate space between two answers.
- Draw table/diagrams/flowcharts wherever appropriate.

**RADIO DIAGNOSIS****PAPER-IV****PART - A**

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Write short notes on:**PART - A**

1. Principle of dual energy CT and its various applications. 5+5
2. Technique, imaging sequences and clinical application of MR urography. 3+3+4

**RADIO DIAGNOSIS****PAPER-IV****PART - B**

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Write short notes on:**PART- B**

3. Describe briefly various embolizing agents used in interventional procedures. 10
4. a) Rotating anode tube. 5+5
b) Photoelectric effect.

**RADIO DIAGNOSIS****PAPER-IV****PART - C**

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Write short notes on:**PART- C**

5. Contrast reactions and its management. 10
6. a) Rare earth screens. 5+5
b) TLD badge.

**RADIO DIAGNOSIS****PAPER-IV****PART - D**

TIME: 3 HOURS

RDG/D/20/40/IV

MAX. MARKS: 100

IMPORTANT INSTRUCTIONS

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Write short notes on:**PART- D**

7. a) Anatomy of bronchial artery. 4+(2+2+2)
b) Indications, technique and complications of bronchial artery embolization.
8. Describe image intensifier with the help of a diagram and briefly discuss its properties and limitations. 5+2+3

**RADIO DIAGNOSIS****PAPER-IV****PART - E**

TIME: 3 HOURS

RDG/D/20/40/IV

MAX. MARKS: 100

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Write short notes on:**PART- E**

- | | | |
|-----|---|-----|
| 9. | a) Tissue harmonic imaging. | 5+5 |
| | b) MR artefacts. | |
| 10. | Recent developments in non-invasive lymphatic imaging techniques for visualizing the central lymphatic anatomy and flow dynamics. | 10 |