RADIODIAGNOSIS

PAPER - IV

RDG/D/15/40/IV

Time : 3 hours Max. Marks : 100

IMPORTANT INSTRUCTIONS

- This question paper consists of 10 questions divided into Part 'A' and Part 'B', each part containing 5 questions.
- Answers to questions of Part 'A' and Part 'B' are to be strictly attempted in separate answer sheet(s) and the main + supplementary answer sheet(s) used for each part must be tagged separately.
- Answers to questions of Part 'A' attempted in answer sheet(s) of Part 'B' or vice versa shall not be evaluated.
- Answer sheet(s) of Part 'A' and Part 'B' are not to be tagged together.
- Part 'A' and Part 'B' should be mentioned only on the covering page of the respective answer sheet(s).
- 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.

PART A

Write short notes on:

1.	a) What is scatter radiation? How does it affect radiographic image quality?b) Methods to reduce scatter radiation.	(1+2)+7
	b) Welfieds to reduce Scatter radiation.	
2.	 a) Enumerate the types of digital radiography. Describe each one briefly. 	4+6
	b) Advantages and limitations of digital radiography compared with conventional film screen radiography.	
3.	a) Principles and techniques of dual energy CT.b) Clinical applications of dual energy CT.	(3+3)+4
4.	Principles and techniques of ultrasound elastography along with its clinical applications.	2+4+4
5.	a) Define contrast induced nephropathy (CIN).b) Conditions predisposing to CIN and the precautions to be taken to avoid CIN.	1+(5+4)

P.T.O.