

RADIODIAGNOSIS

PAPER – IV

RDG/D/16/40/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.*

Write short notes on:

PART A

1. a) What are subarachnoid cisterns? 1+3+6
b) What is their clinical significance during imaging?
c) Name any six subarachnoid cisterns stating their anatomical location.
2. What are the various regulatory controls exercised by the Atomic Energy Regulatory Board for setting up and maintenance of medical diagnostic radiology equipment in India? 10
3. a) With reference to imaging, what do you understand by the term "elastography"? 2+3+5
b) List the key components of MR elastography.
c) What are the relative strengths and limitations of ultrasound and MRI-based elastography techniques in staging liver fibrosis?
4. Role of radionuclide imaging in thyroid and parathyroid disorders. 5+5
5. a) Define contrast-induced-nephropathy. 2+3+5
b) What are its proposed mechanisms?
c) What measures would you take in a patient affected with type 2 diabetes and systemic hypertension to safeguard against contrast-induced-nephropathy?

P.T.O.