RADIODIAGNOSIS

PAPER - IV

RDG/J/17/40/IV

Time : 3 hours Max. Marks : 100 Important instructions:

- 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:

1. a) Define the PC & PNDT Act, its objectives, its target bodies and 5+5 requirements. b) Enumerate the essential information to be filled in Form F and the documents to be attached along with. 2. a) Delineate the boundaries of the middle cranial fossa. 4+6b) Enumerate the anatomical structures found in the middle cranial fossa. 3. a) Enumerate the constituents of the ultrasound gel. 3+3+4b) Identify the usefulness of each constituent. c) Explain the principle behind the usage of ultrasound gel in sonographic imaging. 4. With reference to diagnostic imaging, explain the following terms 5+5 stating their clinical significance: a) Signal to noise ratio(SNR) b) Shear wave elastography 5. a) Name the essential drugs that must be kept in readiness in a 3+7radiology room to tide over the contrast reactions caused by iodinated contrast agents. b) State their usage in diverse contrast reaction related emergencies citing their dosage and mode of administration. 7+3 6. a) What is the role of nuclear medicine imaging techniques in the investigation of neuroendocrine tumours? b) Pitfalls of these techniques. 7. a) Sensitivity, specificity, positive predictive value and negative 5+5 predictive value of a diagnostic test. b) Quote an example using these values for any radiological test.

P.T.O.

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8.	clinical applications in abdominal imaging.	4+6
9.	Enumerate the current interventional radiology techniques being employed in the management of acute massive pulmonary thromboembolism. Outline the merits and limitations of each.	4+6
10.	Recent developments in non-invasive clinical lymphatic imaging techniques capable of visualizing the central lymphatic anatomy and flow dynamics.	10
