

FINAL EXAM
JUNE 2015

NATIONAL BOARD OF EXAMINATIONS

RADIODIAGNOSIS

PAPER – IV

RDG/J/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. Advances in technology to reduce radiation to a patient during radiography. | 10 |
| 2. Clinical applications and techniques of fat suppression in MR imaging. | 10 |
| 3. Principles of perfusion CT and quantification of tumor perfusion parameters. | 10 |
| 4. Management of acute idiosyncratic contrast reactions. | 10 |
| 5. a) What is the principle of MR contrast enhancement?
b) Describe any two organ specific contrast agents and their clinical applications. | 2+4+4 |

P.T.O.

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RADIODIAGNOSIS**PAPER – IV****Please read carefully the important instructions mentioned on Page '1'**

- *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.*

PART B

- | | |
|---|-------|
| 6. Indications, technique and complications of uterine artery embolization. | 2+6+2 |
| 7. Advances in ultrasound transducer technology. | 10 |
| 8. a) Fusion imaging.
b) ELORA. | 5+5 |
| 9. a) Zero lead aprons.
b) Spatial compound imaging. | 5+5 |
| 10. Advances in MR gradient technology and its advantages. | 10 |
