

JUNE 2020

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RADIODIAGNOSIS PAPER-IV

TIME: 3 HOURS MAX. MARKS: 100 RDG/J/20/40/IV

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 question(s) of Part A attempted in answer sheet(s) of part B or Vice versa shall not be evaluated.
- Answer sheets 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 sheets.
- 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

- a) Rotating anode X-ray tube and its advantages. 1. 5+5 b) X-ray beam restricting device and their uses. 2. Classify water soluble iodinated contrast media. Describe 2+3+(2+3)various adverse reactions to iodinated contrast media. Describe steps in the diagnosis and management of contrast media induced anaphylaxis. Enumerate the principles of Computed Radiography (CR) 3. (3+3)+(2+2)and Digital Radiography (DR). What are their advantages and disadvantages? 4. a) Describe the principle and technique of phase contrast 2+2+2+2+2 MR angiography. b) Discuss its advantages, limitations and clinical
- 5. a) Applications of dual energy CT.

5+5

b) Ultrasound artifacts.

applications.

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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 sheets and the main + supplementary answer sheets used for each part must be tagged separately.
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PART B

		
6.	Classify the commonly used embolizing agents. Discuss their advantages, disadvantages and clinical applications.	3+(2+2+3)
7.	What is plagiarism in scientific writing? What are the various common types of plagiarism? Describe, how plagiarism can be detected in scientific writings. Briefly mention a few measures to avoid plagiarism.	1+4+2+3
8.	a) Predatory journals and publishing.b) Techniques of randomization of samples in a research study.	5+5
9.	a) PC-PNDT Act and its applications.b) TLD Badge: Principles and uses.	5+5
10.	a) Artificial Intelligence in radiology. b) PET MRI. ***********************************	5+5