National Board of Examinations

Question Paper Name :Diploma Radio Diagnosis Paper1Subject Name :Diploma Radio Diagnosis Paper1

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Duration :180Total Marks :100Display Marks:NoShare Answer Key With Delivery Engine :NoActual Answer Key :No

Diploma Radio Diagnosis Paper1

Group Number: 1

Group Id: 3271873263

Group Maximum Duration:

Group Minimum Duration:

Show Attended Group?:

No
Edit Attended Group?:

No
Break time:

0

Diploma Radio Diagnosis Paper1

Section Id: 3271873266

Section Number: 1

Section type: Offline

Mandatory or Optional: Mandatory

Number of Questions: 10
Number of Questions to be attempted: 10
Section Marks: 100
Maximum Instruction Time: 0
Sub-Section Number: 1

Sub-Section Id: 3271873270

Question Shuffling Allowed: No

Question Number: 1 Question Id: 32718734574 Question Type: SUBJECTIVE Consider As

Subjective : Yes Correct Marks : 10

Please write your answers in the answer booklet within the allotted pages as follows:-

Question Number	Answer to be attempted within	Question Number	Answer to be attempted within
Q. 1	Page 1-5	Q. 6	Page 26-30
Q. 2	Page 6-10	Q. 7	Page 31-35
Q. 3	Page 11-15	Q. 8	Page 36-40
Q. 4	Page 16-20	Q. 9	Page 41-45
Q. 5	Page 21-25	Q. 10	Page 46-50

- 1. a) What are the different types of MR angiography? [1]
- b) Describe the principle of time of flight (TOF) MR angiography, its advantages & disadvantages and any four clinical applications. [3+2+4]

Question Number: 2 Question Id: 32718734575 Question Type: SUBJECTIVE Consider As

Subjective : Yes Correct Marks : 10

a) Discuss the harmful effects of radiation in humans. [4]

b) What are the radiation protection measures that can be undertaken in a fluoroscopy unit? [6]

Question Number: 3 Question Id: 32718734576 Question Type: SUBJECTIVE Consider As

Subjective : Yes Correct Marks : 10

Enumerate the various MRI artefacts and discuss any four of them in brief. [2+8]

Question Number: 4 Question Id: 32718734577 Question Type: SUBJECTIVE Consider As

Subjective : Yes Correct Marks : 10

What are ultrasound contrast agents? Discuss any four clinical applications of ultrasound contrast agents. [6+4]

Question Number: 5 Question Id: 32718734578 Question Type: SUBJECTIVE Consider As

Subjective : Yes Correct Marks : 10

- a) Discuss the anatomy of rotator cuff of shoulder with well-labelled diagrams. [5]
- b) Discuss briefly the imaging features of various labral tears that can be seen in the shoulder joint. [5]

Question Number: 6 Question Id: 32718734579 Question Type: SUBJECTIVE Consider As

Subjective : Yes Correct Marks : 10

Discuss the following radiological procedures briefly:

- a) Barium enema. [5]
- b) Sonosalpingography. [5]

Question Number: 7 Question Id: 32718734580 Question Type: SUBJECTIVE Consider As

Subjective : Yes Correct Marks : 10

Discuss the imaging anatomy of nose and paranasal sinuses on NCCT with well-labelled diagrams. Also discuss the common anatomical variations that may be seen on NCCT PNS. [7+3]

Question Number: 8 Question Id: 32718734581 Question Type: SUBJECTIVE Consider As

Subjective : Yes Correct Marks : 10

What is X-ray spectrum of an X-ray tube/target and how is it produced? What are the factors that affect the X-ray spectrum? [5+5]

Question Number: 9 Question Id: 32718734582 Question Type: SUBJECTIVE Consider As

Subjective : Yes Correct Marks : 10

What does AERB stand for? What are the major roles of AERB? Discuss the AERB guidelines that need to be followed for installation of a new digital radiography (DR) X-ray machine in your department. [1+(4+5)]

Question Number: 10 Question Id: 32718734583 Question Type: SUBJECTIVE Consider As

Subjective : Yes Correct Marks : 10

Briefly discussed the following:

a) "F form" in PC-PNDT Act. [5]

b) "Characteristic curve" of a photographic film. [5]