

NEET SS 2024 Diploma Radio Diagnosis Paper1 Question Paper with Solutions

Time Allowed :3 Hours	Maximum Marks :100	Total Questions :10
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General Instructions

Read the following instructions very carefully and strictly follow them:

1. The test is of 3 hours duration.
2. The question paper consists of 10 questions. The maximum marks are 100.
3. Each Question is of 10 marks.

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.

2. a) Discuss the harmful effects of radiation in humans.

2. b) What are the radiation protection measures that can be undertaken in a fluoroscopy unit?

3. Enumerate the various MRI artefacts and discuss any four of them in brief.

4. What are ultrasound contrast agents? Discuss any four clinical applications of ultrasound contrast agents.

5. a) Discuss the anatomy of the rotator cuff of the shoulder with well-labelled diagrams.

5. b) Discuss briefly the imaging features of various labral tears that can be seen in the shoulder joint.

6. Discuss the following radiological procedures briefly:

a) Barium enema.

6. b) Sonosalpingography.

7. 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.

8. What is the X-ray spectrum of an X-ray tube/target and how is it produced? What are the factors that affect the X-ray spectrum?

9. 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.

10. Briefly discuss the following:

a) "F form" in PC-PNDT Act.

10. b) "Characteristic curve" of a photographic film.
