

National Board of Examinations

Question Paper Name :	DNB Radio Diagnosis Paper4
Subject Name :	DNB Radio Diagnosis Paper4
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DNB Radio Diagnosis Paper4

Group Number :	1
Group Id :	327187192
Group Maximum Duration :	0
Group Minimum Duration :	180
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Edit Attended Group? :	No
Break time :	0
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Is this Group for Examiner? :	No

DNB Radio Diagnosis Paper4

Section Id :	327187195
Section Number :	1
Section type :	Offline
Mandatory or Optional :	Mandatory

Number of Questions :	10
Number of Questions to be attempted :	10
Section Marks :	100
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Sub-Section Number :	1
Sub-Section Id :	327187199
Question Shuffling Allowed :	No

Question Number : 1 Question Id : 327187440 Question Type : SUBJECTIVE

Correct Marks : 10

- a) Discuss in brief the principle of diffusion imaging in MRI. [4]
- b) Enumerate any four pathologies which lead to restricted diffusion in the brain. [2]
- c) Describe the non neurological applications of diffusion imaging. [4]

Question Number : 2 Question Id : 327187441 Question Type : SUBJECTIVE

Correct Marks : 10

Describe the principle and techniques of ultrasound elastography. What are its applications in diffuse liver disease? [6+4]

Question Number : 3 Question Id : 327187442 Question Type : SUBJECTIVE

Correct Marks : 10

Describe stochastic and nonstochastic effects of radiation. What are the AERB radiation dose limits for occupational workers and general public? [6+4]

Question Number : 4 Question Id : 327187443 Question Type : SUBJECTIVE

Correct Marks : 10

Describe the structure and types of radiographic grids. What is grid ratio? What are the advantages and disadvantages of using them? [4+2+4]

Question Number : 5 Question Id : 327187444 Question Type : SUBJECTIVE

Correct Marks : 10

Describe the composition of first and second generation ultrasound contrast agents. What are the advantages of using these contrast media over CT and MRI contrast agents? Enumerate the applications of US contrast agents. [4+2+4]

Question Number : 6 Question Id : 327187445 Question Type : SUBJECTIVE

Correct Marks : 10

- a) Describe the principle behind Radio Frequency Ablation(RFA). [5]
- b) Discuss its applications in benign and malignant lesions. [5]

Question Number : 7 Question Id : 327187446 Question Type : SUBJECTIVE

Correct Marks : 10

Describe motion artefacts on MRI. What are the various ways of reduction of these artefacts? [5+5]

Question Number : 8 Question Id : 327187447 Question Type : SUBJECTIVE

Correct Marks : 10

What is nephrogenic systemic fibrosis? What are the risk factors for developing NSF? What should be done to minimize its risk? [2+4+4]

Question Number : 9 Question Id : 327187448 Question Type : SUBJECTIVE

Correct Marks : 10

- a) Cone beam CT. [5]
- b) Zoning of MRI facility. [5]

Question Number : 10 Question Id : 327187449 Question Type : SUBJECTIVE

Correct Marks : 10

Describe the technique of hysterosalpingography. What are the indications, contraindications and complications of this procedure? [3+7]