

National Board of Examinations

Question Paper Name :	DNB Radio Diagnosis Paper4
Subject Name :	DNB Radio Diagnosis Paper4
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Share Answer Key With Delivery Engine :	No
Actual Answer Key :	No

DNB Radio Diagnosis Paper4

Group Number :	1
Group Id :	3271871396
Group Maximum Duration :	0
Group Minimum Duration :	180
Show Attended Group? :	No
Edit Attended Group? :	No
Group Marks :	100
Is this Group for Examiner? :	No
Examiner permission :	Cant View
Show Progress Bar? :	No

DNB Radio Diagnosis Paper4

Section Id :	3271871399
Section Number :	1
Section type :	Offline

Mandatory or Optional :	Mandatory
Number of Questions to be attempted :	10
Section Marks :	100
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	3271871403
Question Shuffling Allowed :	No
Is Section Default? :	null

Question Number : 1 Question Id : 32718713042 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

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. Discuss the principle and clinical utility of susceptibility weighted MR imaging in brain. [4+6]

Question Number : 2 Question Id : 32718713043 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

Describe the various methods to acquire dual energy CT. Discuss the applications of dual energy CT in pulmonary pathologies. [5+5]

Question Number : 3 Question Id : 32718713044 Question Type : SUBJECTIVE Consider As

Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

Compare different types of cerebral MR angiographic techniques discussing their principle, applications and limitations. [4+4+2]

Question Number : 4 Question Id : 32718713045 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

Explain the terms Volume CT dose index ($CTDI_{vol}$) and Dose length product (DLP). Discuss the various techniques for controlling radiation dose in CT. [3+7]

Question Number : 5 Question Id : 32718713046 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

Discuss the preoperative imaging evaluation of donor and recipient for liver transplantation. [5+5]

Question Number : 6 Question Id : 32718713047 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

Discuss the various types of embolising agents with their clinical use. [5+5]

Question Number : 7 Question Id : 32718713048 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

Define impact factor of a journal. Discuss the different types of study designs for research. [2+8]

Question Number : 8 Question Id : 32718713049 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

Describe the various radionuclide studies used in evaluation of urinary tract pathology, emphasizing their clinical utility as well as limitations. [10]

Question Number : 9 Question Id : 32718713050 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

Describe the construction and principle of an X-ray tube. Discuss causes of X-ray tube failure. [4+3+3]

Question Number : 10 Question Id : 32718713051 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

Describe any five ultrasound artifacts along with ways to reduce them and their clinical utility, if any. [2+2+2+2+2]