

National Board of Examinations

Question Paper Name : DNB Radio Diagnosis Paper4
Subject Name : DNB Radio Diagnosis Paper4
Duration : 180
Total Marks : 100
Display Marks: No

Maximum Instruction Time : 0

Question Number : 1 Question Id : 32718733244 Consider As Subjective : Yes

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) Discuss the mapping of uterine fibroids on MRI. [4]
b) Role of interventional radiology in uterine fibroids. [6]

Question Number : 2 Question Id : 32718733245 Consider As Subjective : Yes

- a) Technique of double contrast barium enema. [5]
b) Nuclear medicine in renal infection. [5]

Question Number : 3 Question Id : 32718733246 Consider As Subjective : Yes

- a) What is contrast induced nephropathy (CIN)? [5]
b) Discuss the pathogenesis and methods adopted to prevent CIN. [5]

Question Number : 4 Question Id : 32718733247 Consider As Subjective : Yes

- a) Which are the common MRI radiofrequency (RF) coils? [4]
b) Discuss briefly the various MRI artifacts. [6]

Question Number : 5 Question Id : 32718733248 Consider As Subjective : Yes

Discuss MR elastography and its applications in abdominal imaging. [5+5]

Question Number : 6 Question Id : 32718733249 Consider As Subjective : Yes

- a) Hepatic iron quantification. [5]
- b) Post mortem CT. [5]

Question Number : 7 Question Id : 32718733250 Consider As Subjective : Yes

Discuss the principle and various applications of dual energy CT. [2+8]

Question Number : 8 Question Id : 32718733251 Consider As Subjective : Yes

Classify and discuss the various embolic agents that are used in interventional radiology. [3+7]

Question Number : 9 Question Id : 32718733252 Consider As Subjective : Yes

Artificial intelligence (AI) in radiology. [10]

Question Number : 10 Question Id : 32718733253 Consider As Subjective : Yes

- a) Discuss the construction of an X-ray tube with a neat labelled diagram and explain how X-rays are produced. [5]
- b) What are the cardinal principles of radiation protection? [5]