

National Board of Examinations

Question Paper Name : Diploma Radio Diagnosis Paper1
Subject Name : Diploma Radio Diagnosis Paper1
Duration : 182
Total Marks : 100
Display Marks: No

Maximum Instruction Time : 0
Is Section Default? : No

Question Number : 1 Question Id : 32718745722 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 |
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| Q. 1 | Page 1-5 | Q. 6 | Page 26-30 |
| Q. 2 | Page 6-10 | Q. 7 | Page 31-35 |
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1. Discuss in brief the imaging anatomy of neck spaces with the help of a labelled diagram. Enumerate common pathologies affecting the masticator space. [8+2]

Question Number : 2 Question Id : 32718745723 Consider As Subjective : Yes

Discuss the principle of diffusion weighted MR imaging and its applications. [5+5]

Question Number : 3 Question Id : 32718745724 Consider As Subjective : Yes

- a) Piezoelectric effect. [5]
- b) CTDI (CT Dose index). [5]

Question Number : 4 Question Id : 32718745725 Consider As Subjective : Yes

Enumerate any six MR artefacts. Discuss in detail any two artefacts including appearance, potential causes and ways to mitigate them. [3+7]

Question Number : 5 Question Id : 32718745726 Consider As Subjective : Yes

What is an image intensifier? Write in detail its construction with the help of a diagram. [2+8]

Question Number : 6 Question Id : 32718745727 Consider As Subjective : Yes

Describe the CT anatomy of the retroperitoneum and discuss the pathology of acute pancreatitis. [5+5]

Question Number : 7 Question Id : 32718745728 Consider As Subjective : Yes

Describe the technique of micturating cystourethrogram (MCU). Enumerate the findings in a case of posterior urethral valves. [5+5]

Question Number : 8 Question Id : 32718745729 Consider As Subjective : Yes

What is scattered radiation and what are its effects? Briefly describe the methods to reduce scattered radiation. [(2+3)+5]

Question Number : 9 Question Id : 32718745730 Consider As Subjective : Yes

- a) Qualification and responsibilities of radiation safety officer in diagnostic radiology department. [5]
- b) Thermoluminescent dosimeter (TLD badge). [5]

Question Number : 10 Question Id : 32718745731 Consider As Subjective : Yes

- a) Enumerate the requirements of record maintenance by an ultrasound centre under PC-PNDT Act. [6]
- b) Iso-osmolar iodinated contrast media. [4]