

# National Board of Examinations

**Question Paper Name :** Diploma Radio Diagnosis Paper1  
**Subject Name :** Diploma Radio Diagnosis Paper1  
**Duration :** 180  
**Total Marks :** 100  
**Display Marks:** No

**Maximum Instruction Time :** 0

**Question Number : 1 Question Id : 32718736935 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 anatomy of hepatic segments with a well labelled diagram. [7]  
b) Briefly discuss the CT protocol for evaluation of a focal liver lesion. [3]

**Question Number : 2 Question Id : 32718736936 Consider As Subjective : Yes**

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

**Question Number : 3 Question Id : 32718736937 Consider As Subjective : Yes**

- a) What are the potential risks of ionizing radiation to fetus in a pregnant woman? [5]
- b) Briefly discuss the imaging evaluation in a pregnant woman with suspected pulmonary thromboembolism. [5]

**Question Number : 4 Question Id : 32718736938 Consider As Subjective : Yes**

Describe basic principles and applications of dual energy CT. [5+5]

**Question Number : 5 Question Id : 32718736939 Consider As Subjective : Yes**

- a) Pathophysiology of Xanthogranulomatous pyelonephritis. [5]
- b) Anatomy of cavernous sinus. [5]

**Question Number : 6 Question Id : 32718736940 Consider As Subjective : Yes**

- a) Describe the normal anatomy of esophago-gastric junction. [4]
- b) Discuss the imaging evaluation of gastroesophageal reflux and its complications. [6]

**Question Number : 7 Question Id : 32718736941 Consider As Subjective : Yes**

Discuss the management of acute hypersensitivity reaction to iodinated contrast medium. [10]

**Question Number : 8 Question Id : 32718736942 Consider As Subjective : Yes**

Briefly discuss fat suppression techniques in MRI. [10]

**Question Number : 9 Question Id : 32718736943 Consider As Subjective : Yes**

Describe the maintenance and preservation of records by genetic counselling centre, genetic laboratory and ultrasound clinic as mandated by the PC-PNDT Act. [10]

**Question Number : 10 Question Id : 32718736944 Consider As Subjective : Yes**

- a) Ultrasound evaluation of developmental dysplasia of hip in an infant. [7]
- b) Indications of MRI in this condition. [3]