

(LP 1514)

OCTOBER 2019

3019

**DIPLOMA IN MEDICAL RADIODIAGNOSIS
(DMRD)**

MEDICAL RADIATION PHYSICS AS APPLIED TO RADIODIAGNOSIS

I. Elaborate on: (2 x 15 = 30)

1. Composition of Xray films and discuss different parameters which influence film contrast?
2. Describe various techniques of MR angiography.

II. Write notes on: (10 x 7 = 70)

1. Doppler artefacts.
2. Idiosyncratic reaction to contrast agent and its management.
3. Dose reduction techniques in MDCT.
4. Clinical applications and techniques of MR spectroscopy.
5. Write about USG contrast agents and their use in focal liver lesions.
6. Photoelectric effect and its application in diagnostic radiology.
7. Various techniques of CT angiography and contrast optimization.
8. Describe radiopharmaceuticals used in PET CT.
9. Xray beam restrictors.
10. MRI Coils used in Musculo Skeletal imaging.

**DIPLOMA IN MEDICAL RADIODIAGNOSIS
(DMRD)**

RADIODIAGNOSIS AND IMAGING

I. Elaborate on: (2 x 15 =30)

1. Causes for CBD obstruction at Porta Hepatis and write about role of various imaging modalities and interventional radiology in the same.
2. Imaging features of tumors of the posterior mediastinum.

II. Write notes on: (10 x 7 = 70)

1. Discuss the role of imaging in lower oesophageal stricture.
2. CT imaging features of TB abdomen.
3. Write about imaging of colonic polyposis.
4. Write about role of imaging in common hepatic infections.
5. Write about Revised Atlanta classification of acute pancreatitis.
6. Causes for inferior rib notching and write about imaging features of one of the conditions in detail.
7. Role of cardiac MRI in pericarditis.
8. Write about doppler imaging of proximal ICA stenosis.
9. Discuss the diagnostic imaging features of various Sero negative arthritis.
10. Write about imaging features of various chest infections in a HIV patient.

[LP 1516]

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Sub. Code: 3021

DIPLOMA IN MEDICAL RADIODIAGNOSIS (DMRD)

EXAMINATION

RADIODIAGNOSIS INCLUDING NUCLEAR MEDICINE

I. Elaborate on: (2 x 15 = 30)

1. Imaging of blunt injury abdomen and Discuss in detail about renal injury.
2. Write about causes for post menopausal bleeding and role of imaging in staging endometrial carcinoma.

II. Write notes on: (10 x 7 = 70)

1. Imaging of vesicoureteric reflux.
2. USG evaluation of fetal ventriculomegaly.
3. Causes for bilateral basal ganglia calcification and imaging features of Wilson's disease.
4. Imaging of dural venous sinus thrombosis.
5. Radiological anatomy of osteo meatal unit and imaging features of chronic sinonasal inflammatory disease.
6. Types of microcalcification in mammographic image and their significance.
Briefly mention about stereotactic biopsy.
7. Discuss the role of imaging in viral infections of CNS.
8. Write about imaging of pseudo tumour orbit and its differential diagnosis.
9. Write about HIFU and its role in uterine fibroids.
10. PET CT evaluation of Prostate Carcinoma.
