

(LK 1514)

MAY 2017

Sub. Code:3019

**DIPLOMA IN MEDICAL RADIO DIAGNOSIS (DMRD)
EXAMINATION
MEDICAL RADIATION PHYSICS AS APPLIED TO RADIO DIAGNOSIS**

Q.P.Code: 343019

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Define Doppler effect. Briefly describe Colour Doppler and Power Doppler modes of imaging. Enumerate the advantages of each mode.
2. Discuss in detail the planning consideration of 500mA X-ray machine.

II. Write notes on:

(10 x 7 = 70)

1. Digital mammography.
2. PACS in radiology
3. Safety hazards in MRI.
4. Factors affecting film contrast.
5. Heel effect
6. Advantages of grid
7. Flat panel detectors.
8. Technique of fat suppressed MRI.
9. Image intensifier.
10. Dosimeters for radiation screening.

MAY 2017

Sub. Code:3020

**DIPLOMA IN MEDICAL RADIO DIAGNOSIS (DMRD)
EXAMINATION**

RADIO DIAGNOSIS AND IMAGING

Q.P.Code: 343020

(LK 1515)

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 =30)

1. Describe the anatomy of mediastinum. Describe in detail the imaging features of posterior mediastinal masses.
2. Discuss in detail the imaging of inflammatory bowel diseases.

II. Write notes on:

(10 x 7 = 70)

1. Imaging in pulmonary embolism.
2. Barium meal and CT findings in bowel lymphoma.
3. Imaging in nipple discharge.
4. Choledochal cyst.
5. Imaging in carcinoma cervix.
6. MRI of prostate.
7. Imaging in perinatal asphyxia
8. First trimester ultrasonography.
9. MRI in internal derangement knee.
10. Virtual bronchoscopy.

MAY 2017

Sub. Code:3021

**DIPLOMA IN MEDICAL RADIO DIAGNOSIS (DMRD)
EXAMINATION**

RADIO DIAGNOSIS INCLUDING NUCLEAR MEDICINE

I. Elaborate on:

1. Discuss in detail the imaging of pancreatic masses.
2. Enumerate various neurocutaneous syndromes. Imaging findings in case of neurofibromatosis I.

II. Write notes on:

- 1.FUSION imaging.
- 2.Nuclear bone scan.
- 3.Doppler in IUGR.
- 4.MRI in breast implants.
- 5.Imaging of pediatric liver lesions.
- 6.Soap bubble lesions in mandible.
- 7.Coarctation of aorta.
- 8.Imaging in pulmonary sequestration.
- 9.Imaging in HCC.
- 10.Imaging in aortic aneurysm.