

DIPLOMA IN
(LM 1514)

DIAGNOSIS (DMRD)
MAY 2018

Sub. Code: 3019

MEDICAL RADIATION PHYSICS AS APPLIED TO RADIO DIAGNOSIS

I. Elaborate on:

(2 x 15 = 30)

1.a) Enumerate Types of digital radiography. Describe each one briefly.

1. Advantages and limitations of DR compared with conventional film screen radiography.
2. Define basic units of radiation exposure. Describe biological effects of radiation.

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

1. Mammography X-ray tube.

2. Digital tomosynthesis.

3. Photoelectric effect and its applications in diagnostic radiology.

4. Film contrast.

5. TLD badge.

6. Recent advances in USG transducer technology.

7. Grids.

8. Ultrasound artifacts.

9. Rotating anode.

10. Image intensifier.

(LM 1515)

MAY 2018

Sub. Code: 3020

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

RADIO DIAGNOSIS AND IMAGING

Q.P.Code: 343020

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 =30)

1. Classify orbital lesions in relation to various orbital spaces. Discuss MR features in orbital pseudotumors.
2. CT features of Liver trauma, Discuss role of intervention.

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

1. Doppler evaluation in male impotence.
2. Scimitar syndrome.
3. Vertebroplasty.
4. CT-Colonography.
5. Vein of Galen Malformation.
6. Seronegative spondyloarthropathy.
7. Doppler in hepatic cirrhosis.
8. Role of chest Radiograph and CT in AIDS.
9. Radiological features of Renal TB.
10. Elastography and its Applications.

[LM 1516]

MAY 2018

Sub. Code: 3021

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

RADIO DIAGNOSIS INCLUDING NUCLEAR MEDICINE

Q.P.Code: 343021

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss the role of various imaging modalities in a suspected case of renovascular hypertension.
2. Principles and role of PET CT in clinical radiology.

II. Write notes on:

(10 x 7 = 70)

3. Varicocele – Doppler and USG features.
- 4.a) Causes for Pulmonary venous hypertension.
2. b) Describe plain X-ray findings in pulmonary venous hypertension.
5. Ultrasound evaluation of placenta.
6. Paget's disease.
7. Imaging in Respiratory distress in new born.
8. Radio nuclide scanning in a bony lesion.
9. Imaging in 9 year old female patient presenting with Right lower quadrant pain.
10. Intramedullary neoplasms of spinal cord.
11. BIRADS classification.
12. Transvaginal USG scan in female infertility.