

[LM 136]

MAY 2018

**M.D. DEGREE EXAMINATION
BRANCH VIII – RADIO DIAGNOSIS**

**PAPER I – MEDICAL RADIATION PHYSICS AS APPLIED TO RADIO
DIAGNOSIS**

Q.P. Code :202031

I. Elaborate on:

(2 x 15 = 30)

1. Various imaging techniques in Cathlab.
2. Describe the Physical Principles of MDCT.

II. Write notes on:

(10 x 7 = 70)

1. Describe Hounsfield number.
2. Describe the principle of Magnetic Resonance Angiography.
3. Write notes on Ultrasound transducer.
4. What are the common MRI artifacts?
5. Compare stationary and Rotating Anode.
6. Radiation protection gadgets in Interventional Radiology.
7. Ultrasound artifacts.
8. CR vs DR.
9. Scatter radiation.
10. Image intensifier.

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**M.D. DEGREE EXAMINATION
BRANCH VIII – RADIO DIAGNOSIS**

PAPER II – RADIO DIAGNOSIS INCLUDING NUCLEAR MEDICINE

Time : Three Hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Role of Nuclear Medicine in Hepatobiliary and Gastrointestinal tract.
2. Describe in detail about Anomaly scan including Fetal Echo.

II. Write notes on:

(10 x 7 = 70)

1. Isotope study of Kidney.
2. Ventilation Perfusion Imaging.
3. Isotopes used for PET SCAN.
4. Functional MRI.
5. Twin to twin transfusion syndrome.
6. Sonomammogram.
7. Radiological features of crohns disease.
8. Imaging of pituitary tumors.
9. Radiological features of cystic tumors of pancreas.
10. Imaging in DVT.

Sub. Code: 2033

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M.D. DEGREE EXAMINATION
BRANCH VIII – RADIO DIAGNOSIS
PAPER III – RADIO DIAGNOSIS INCLUDING INSTRUMENTATION AND
CONTRAST STUDIES

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

1. Imaging and intervention of acute ischemic stroke.
2. Imaging of Budd – Chiari syndrome and role of interventional radiology.

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

1. Imaging of carotid cavernous fistula and interventional management.
2. CT guided biopsy technique.
3. Portal vein embolisation.
4. Imaging of osteoid osteoma and interventional management.
5. Radiomics.
6. Fibroid embolisation.
7. Imaging of bowel ischemia.
8. Diffusion weighted imaging in brain tumors.
9. Spectral CT.
10. Chemo port.
