D.M.R.D.

[Diploma in Medical Radiology Diagnosis]

BF/2015/05

Basic Sciences as related to Radiology

[Paper–I]

Time : 3 Hours M.M.: 100

Note: Attempt all questions.

All questions carry equal marks.

Illustrate your answer with suitable diagrams.

1. Principle of HRCT and clinical application. [10]

2. CR system. [10]

3. Scattered radiation. [10]

4. Grids. [10]

5. Radiation protection during fluoroscopy. [10]

6. Radiographic anatomy of mediastium. [10]

7. MR contrast agents. [10]

8. MR angiography. [10]

9. PC-PNDT act. [10]

10. RF ablation in clinical medicine. [10]

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Physics as applied to Medical Radiology

[Paper–II]

Time : 3 Hours M.M.: 100

Note: Attempt all questions.

All questions carry equal marks.

Illustrate your answer with suitable diagrams.

1. Describe interaction of matter with radiation. [10]

2. Describe basic principle of CT and enumerate various generations. [10]

3. Write short notes on:- (any one) [10]

a. MR spectroscopy.

b. Tissue harmonic imaging.

4. Describe various types of transducers. [10]

5. Short notes on:- (any one) [10]

a. Diagnostic X-ray tube.

b. Grids in radiography.

6. Describe intensifying screens. [10]

7. Describe method of entroclysis & its clinical applications. [10]

8. Describe imaging findings of :- (any one) [10]

a. Neuro-TB.

b. Tolosa hunt syndrome.

9. Short notes on: [10]

a. TLD b. MPD

10. Shorts notes on: [10]

a. Marfans’s syndrome.

b. CCF (carotiob-cavernous fistula)

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Diagnostic Radiology and Recent advances

[Paper–III]

Time : 3 Hours M.M.: 100

Note: Attempt all questions.

All questions carry equal marks.

Illustrate your answer with suitable diagrams.

1. MR imaging in intractable epilepsy. [10]

2. Acute hemoptysic causes and imaging features. [10]

3. DTI in neuroinflammation. [10]

4. Fetal neurosonography. [10]

5. Pulmonary thromboembolism. [10]

6. Acute scrotum imaging. [10]

7. Perfusion CT of pancreas. [10]

8. Imaging of multiple sclerois. [10]

9. ABPA. [10]

10. Non coronary dual energy CT applications. [10]

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