

MD[Radiodiagnosis]

BF/2009/05

Basic Sciences & Physics as applied to Radiodiagnosis

[Paper-I]

Time : 3 Hours

M.M.: 100

Note: Attempt all questions.

1. Write on relevance of computers in radiology practice. How does computed radiography differ from Digital radiography? What is the advantage over conventional radiography? [30]
2. Describe the radiological anatomy of mediastinum. Discuss the imaging modalities used for diagnosing mediastinal mass lesions. [30]
3. **Write short notes on:** [40]
 - a. Endovascular sonography.
 - b. Anomalous pulmonary venous drainage.
 - c. Scattered radiation on image quality.
 - d. Manual Vs. Automatic film processing.

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Principles & Practice of Radiodiagnosis

[Paper-II]

Time : 3 Hours

M.M.: 100

Note: Answer all the questions.

1. Discuss the differential diagnosis and imaging approach of Mass lesions of orbit. [32]
2. Enumerate the cause of "Unilateral Small kidney" and describe imaging features in them. [32]
3. **Write short notes on:** [36]
 - a. Pulmonary lesions in 'AIDS'.
 - b. Transrectal sonography.
 - c. Liver trauma.

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Radiodiagnosis as related to Pathology [Paper-III]

Time : 3 Hours

M.M.: 100

Note: Attempt all questions.

1. Discuss pathology and imaging features of intestinal Lymphoma. [35]
2. Discuss the pathophysiology and imaging features of Pulmonary tuberculosis. [35]
3. **Write short notes on:** [3x10=30]
 - a. Solitary dense vertebra.
 - b. Meningioma.
 - c. Benign breast masses.

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Recent advances in Radiodiagnosis

[Paper-IV]

Time : 3 Hours

M.M.: 100

Note: Attempt all questions.

1. Discuss in detail recent advances in Nuclear medicine. [20]
2. **Write short notes on:**
 - a. MRCP Versus ERCP in obstructive jaundice. [10]
 - b. Role of colour Doppler in renal transplant. [10]
3. **Discuss in detail:**
 - a. PET imaging – its techniques and clinical applications. [10]
 - b. PAIR therapy. [10]
4. **Write short notes on:**
 - a. PNDT act. [10]
 - b. Calcium scoring. [10]
5. **Discuss briefly:**
 - a. Daxascan. [10]
 - b. Filmless radiology department. [10]
