

QP Code:

Reg.No.:.....

**MD Degree Examinations in Radio Diagnosis
(Model Question Paper)**

**Paper I – BASIC SCIENCE, RADIATION PHYSICS, RADIOLOGICAL ANATOMY
AND CONTRAST MEDIA**

Time: 3 hrs

Max marks :100

- ***Answer all questions***
- ***Draw diagrams wherever necessary***

Essay:

(20)

1. Describe the structure and the following photographic characteristics of a double coated X-ray film?
 - Characteristic curve
 - Film gamma
 - Film latitude
 - Speed of film.

Short essays:

(8X10=80)

2. Radiological anatomy of Larynx and Hypopharynx
3. Contrast agents in MRI
4. Principle of Doppler ultrasound and methods of Doppler shift display
5. Biologicals effects of x-rays and Radiation protection methods for a Radiologist doing fluoroscopy
6. X-ray tube rating charts and its applications
7. Day light film – handling systems
8. Basic radiographic views of paranasal sinuses
9. X-ray beam restrictors

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**Paper II – RESPIRATORY SYSTEM, CARDIOVASCULAR SYSTEM,
GASTROINTESTINAL TRACT AND UROGENITA TRACTS**

Time: 3 hrs

Max marks:100

- ***Answer all questions***
- ***Draw diagrams wherever necessary***

Essay:

(20)

1. Blunt abdominal trauma patient presenting with haematuria, discuss the

- Approach to imaging
- MDCT grading of renal injury
- Imaging features of intraperitoneal and extra peritoneal urinary bladder rupture
- Role of imaging in managements of urinary bladder rupture

Short essays:

(8X10=80)

2. Imaging in Pulmonary thrombo embolism
3. Pulmonary manifestations in AIDS
4. Nuclear cardiac imaging
5. Collagen vascular disorders – HRCT findings
6. Hypertrophic cardiomyopathy
7. Imaging in Gastric volvulus
8. Ischemic colitis
9. Acute on chronic pancreatitis – diagnostic dilemmas

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**Paper III – SKELETAL SYSTEM, OBSTETRICS AND GYNAECOLOGICAL IMAGING,
ENT, EYES, TEETH, SOFT TISSUES, SKULL AND CENTRAL NERVOUS SYSTEM.**

Time: 3 hrs

Max marks:100

- ***Answer all questions***
- ***Draw diagrams wherever necessary***

Essay:

(20)

1. In imaging Acute Stroke

- Role of MDCT
- Basic MR sequences
- Diffusion – perfusion mismatch and role of thrombolytic therapy

Short essays:

(8X10=80)

2. Role of Radiology in the management of osteosarcoma

3. Carotid – cavernous fistula

4. Odontogenic tumor of mandible

5. Perthe's disease – imaging features

6. Role of MRI in malignant ovarian tumors

7. Anomaly scan in 1st – trimester

8. Mesial temporal sclerosis

9. Glomus tympanum tumors

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Paper IV – RECENT ADVANCES IN RADIODIAGNOSIS

Time: 3 hrs

Max marks:100

- *Answer all questions*
- *Draw diagrams wherever necessary*

Essay:

(20)

1. Brain Magnetic Resonance Spectroscopy - Principles, technique and clinical applications

Short essays:

(8X10=80)

2. Phase contrast MRA
3. Magnetization transfer
4. Tissue harmonic – US imaging
5. Vascular intervention in GIT
6. Endoscopic ultrasonography
7. Tissue elastography
8. PET – CT imaging
9. MDCT perfusion study
