# POST GRADUATE EXAMINATION, JUNE - 2023

## MD RADIODIAGNOSIS
### (PAPER ONE)

### BASIC SCIENCES RELATED TO RADIODIAGNOSIS

**[Time allotted: Three hours]**            **[Max Marks: 100]**

**Note:** Attempt all questions
Illustrate with suitable diagrams.

**Q. 1.** Labelled neat diagram of the vessels of vertebra-basilar system and circle of Willis. Discuss technique and imaging in acute cerebral stroke **(20)**

**Q. 2.** Digital breast tomosynthesis: Principle, application in breast masses with merits-demerits w.r.t other modalities **(20)**

**Q. 3. Describe briefly:**          **(3 x 10 = 30)**
     **a.** PC PNDT Act.
     **b.** Role of PET CT in oncology
     **c.** Macrocyclic MR contrast agents

**Q. 4. Write short notes on:**          **(5 x 6 = 30)**
     **a.** TLD
     **b.** Safety measures in MRI
     **c.** Doppler waveform interpretation
     **d.** Intensifying screens
     **e.** Focal spot in X ray tube

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# POST GRADUATE EXAMINATION, JUNE - 2023

## MD RADIODIAGNOSIS
### (PAPER TWO)

### CLINICAL RADIOLOGY & RELATED PATHOLOGY

**[Time allotted: Three hours]**                                             **[Max Marks: 100]**

**Note:**   Attempt all questions
Illustrate with suitable diagrams.

**Q. 1.** How will you radiologically evaluate a) donor kidney for renal transplant b) transplanted kidney with its various complications? **(20)**

**Q. 2.** Radiological approach to focal lesions in cirrhotic liver and role of CT and MRI in DD of these lesions. **(20)**

**Q. 3.** **Describe briefly:**                                      **(3 x 10 = 30)**

    **a.** HRCT in suspected COVID 19 patients.

    **b.** Color Doppler in IUGR

    **c.** Role of CT in acute pancreatitis

**Q. 4.** **Write short notes on:**                                 **(5 x 6 = 30)**

    **a.** ARDS

    **b.** Contrast induced nephropathy

    **c.** Erectile dysfunction

    **d.** Sequestration of lung

    **e.** Double contrast enema

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# POST GRADUATE EXAMINATION, JUNE – 2023
## MD RADIODIAGNOSIS
### (PAPER THREE)

## CLINICAL RADIOLOGY & RELATED PATHOLOGY

**[Time allotted: Three hours]**                                                        **[Max Marks: 100]**

**Note:**  Attempt all questions
Illustrate with suitable diagrams.

**Q. 1.**  Enumerate algorithmic radiological approach to acquired white matter disease? Enumerate radiological features of MS.                                                                **(20)**

**Q. 2.**  Discuss Imaging approach of non-traumatic acute hip pain in children with attention to the reduction of medical radiation exposure.                                      **(20)**

**Q. 3.**  **Describe briefly:**                                                          **(3 x 10 = 30)**
   **a.**  Unilateral eye proptosis
   **b.**  Role of CT perfusion parameters in brain tumors
   **c.**  Radiological manifestations of Spinal tuberculosis

**Q. 4.**  **Write short notes on:**                                                       **(5 x 6 = 30)**
   **a.**  Arnold Chiari malformations
   **b.**  Imaging features of JNA
   **c.**  Skeletal manifestations of hyperparathyroidism
   **d.**  Causes of enlarged jugular foramen
   **e.**   Stress fracture

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# POST GRADUATE EXAMINATION, JUNE – 2023

## MD RADIODIAGNOSIS
### (PAPER FOUR)

### RECENT ADVANCES AND NUCLEAR MEDICINE IN RADIODIAGNOSIS

**[Time allotted: Three hours]**                        **[Max Marks: 100]**

**Note:** Attempt all questions
Illustrate with suitable diagrams.

**Q. 1.** Primary and secondary radiation? Harmful effects of secondary radiation on quality of radiographs and measures to reduce them? **(20)**

**Q. 2.** Radiological evaluation of 45 yr patient with massive hemoptysis. Suggest possible interventional management. **(20)**

**Q. 3. Describe briefly:**                        **(3 x 10 = 30)**
   **a.** RFA of osteoid osteoma
   **b.** Shear wave USG elastography
   **c.** Dual energy CT

**Q. 4. Write short notes on:**                     **(5 x 6 = 30)**
   **a.** Scintigraphy in biliary atresia
   **b.** PET CT in pancreatic NET
   **c.** Functional imaging of brain
   **d.** CNS applications of Steady-State Free Precession MR Images
   **e.** MR enteroclysis

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