

**QP Code: 101116**

**Reg. No.:.....**

**PG Degree Supplementary Examinations in Radio diagnosis (MD)  
January 2024**

**Paper I – Basic Science, Radiation Physics, Radiological Anatomy and Contrast  
Media**

**Time: 3 hrs**

**Max marks:100**

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

**Essay:**

**(20)**

1. Physical Principles of Spiral CT, Generations of scanners and latest advancements in CT Imaging. Add a note on Electron beam CT and its applications.

**Short essays:**

**(8x10=80)**

2. Discuss various Radiographic techniques for imaging Patella.
3. Cerebral Venous anatomy with note on MR Venogram.
4. Radiographic techniques for imaging the PNS (Para nasal Sinuses).
5. Anatomy of the shoulder joint and MRI Findings in Injuries of Shoulder joint.
6. PET (Positron Emission Tomography): Principles and Clinical Applications.
7. Discuss the role of Radioisotopes in Renal Imaging.
8. Elaborate on Doppler Physics and Ultrasound artifacts.
9. TLD badge.

\*\*\*\*\*