

QP Code: 101116

Reg. No.:.....

**PG Degree Regular/Supplementary Examinations in  
Radio diagnosis (MD) July 2023**

**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. Enumerate and discuss in detail the various interactions of the X- ray with matter.

**Short essays: (8x10=80)**

2. Classify Iodinated contrast media. Discuss in detail the adverse reactions of iodinated contrast media and its management.
3. Principles and clinical applications of dual energy CT.
4. Tissue Harmonic Imaging – Principle and Applications.
5. Digital breast Tomosynthesis.
6. POCUS in Intensive Care Unit (ICU) patients.
7. Principles of Spin Echo (SE) and Gradient Echo (GRE) MRI pulse sequences.
8. Anatomy of Cranio-Vertebral Junction. Discuss Radiological parameters in diagnosis of Basilar Invagination.
9. Radiological anatomy and radiographic views of temporal bone.

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