

QP Code:101187

Reg.No.:.....

**P.G. Diploma Examinations in Medical Radiodiagnosis (DMRD) –
May 2014**

**Paper I – Basic Sciences as Applied to Radiodiagnosis (Basic science,
Radiation physics, Radiological anatomy, Radiography and contrast media)**

Time: 3 hrs

Max marks:100

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

Essay: (20)

1. Describe in detail the structure of a modern x-ray tube. Add a note on production of x-rays.

Short essays: (8x10=80)

2. Anatomy and imaging of the cranio-vertebral junction.
3. Artifacts in computed radiography (CR) system.
4. Describe radiation hazards. Add a note on acute radiation syndrome.
5. Anatomy of mediastinum.
6. Slip – ring technology in C.T.
7. T₁ T₂ relaxation times.
8. Harmonic imaging and ultrasound contrast media.
9. Discuss briefly anomalies of the aortic arch and its major branches.
