

QP Code:101116

Reg.No.:.....

PG Degree Examinations in Radio diagnosis (MD) - June 2015

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

Time: 3 hrs

Max marks:100

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

Essays: (20)

1. Describe the principles of a computerised radiography and digital radiography systems. List the advantages and disadvantages of the same

Short essays: (8x10=80)

2. Describe the radiological anatomy of the retro-peritoneum.
3. Compare film screen mammography and digital mammography.
4. Magnetic resonance spectroscopy – principles and clinical applications.
5. Principles and clinical applications of positron emission tomography.
6. Describe the embryology of the pancreas with neat diagrams.
7. Discuss PC – PNDT act.
8. Describe five MRI artifacts and ways to prevent them.
9. Enumerate the harmful effects of radiation.
