QP Code: 101116 Reg. No.:.....

PG Degree Supplementary Examinations in Radio diagnosis (MD) - November 2016

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)

 Draw the basic structure of an ultra sound transducer. Enumerate the merits and demerits of various transducers. Discuss the principle of colour Doppler flow imaging

Short essays: (8x10=80)

- 2. Describe the radiological anatomy of adrenals.
- 3. Describe the adverse reactions to X-ray contrast media.
- 4. Magnetic resonance angiography principles and techniques.
- 5. Enumerate various interactions of X-ray photons with matter and describe any two of them.
- 6. Describe the embryology of the urinary tract.
- 7. Describe the principles in cardiac computed tomography.
- 8. Describe five Doppler artefacts and ways to prevent them.
- 9. Draw a neat labelled diagram of a gamma camera and enumerate the various indications of scintigraphy.
