Reg. No.

M.D. DEGREE EXAMINATION, IN RADIODIAGNOSIS, DECEMBER 2008

Paper I—BASIC SCIENCES, RADIATION PHYSICS, RADIOLOGICAL ANATOMY AND CONTRAST MEDIA

Time: Three Hours

Maximum: 100 Marks

Answer all questions.

- I. Write short notes on:
 - 1 Anodes in X-ray tube.
 - 2 Contrast agents in MRI.
 - 3 Adverse reactions to iodinated I.V. contrasts.
 - 4 TLD.
 - 5 Heel effect.

 $(5 \times 5 = 25 \text{ marks})$

- II. Write briefly on:
 - 1 Grids in conventional radiology.
- 2 Fracture healing.
- 3 Rotator cuff of shoulder
- 4 X-ray tube rating.

 $(4 \times 5 = 20 \text{ marks})$

- III. Write short notes on :
 - 1 Double contrast examination of stomach.
 - 2 Sialography.
 - 3 Radiological anatomy of oesophagus.
 - 4 HRCT technique.
 - 5 MRCP technique.

 $(5 \times 5 = 25 \text{ marks})$

- IV. Describe radiography of:
 - 1 Scapula.

2 Sacro-iliac joints.

3 Optic foramen.

4 Sternum.

5 Mandible.

 $(5 \times 4 = 20 \text{ marks})$

- V. Describe briefly the following:
 - 1 Piezoelectric effect.
 - 2 Digital Radiography.

 $(2 \times 5 = 10 \text{ marks})$