

**M.D. DEGREE EXAMINATION IN RADIODIAGNOSIS, MAY 2008**

Paper I—BASIC SCIENCE, RADIATION PHYSICS, RADIOLOGICAL ANATOMY AND  
COTRAST MEDIA

Time : Three Hours

Maximum : 100 Marks

*Answer all questions.*

I. Write short notes on :

- 1 Film unsharpness.
- 2 Radio isotope bone scanning.
- 3 Xeroradiography.
- 4 Pixel and Voxel in CT Images.
- 5 High frequency X ray machines.

(5 × 5 = 25 marks)

II. Write briefly on :

- 1 DSA.
- 2 Rare earth screens.
- 3 Full wave and half wave rectification.
- 4 Maximum permissible dose.

(5 × 4 = 20 marks)

III. Write short notes on :

- 1 Enteroclysis.
- 2 Radiological Anatomy of Sella.
- 3 Sonourethrography.
- 4 Oral Cholecystogram.
- 5 Vascular anatomy of Liver.

(5 × 5 = 25 marks)

IV. Describe radiography of :

- 1 Cervico-thoracic junction.
- 2 Intercondylar notch.
- 3 Scaphoid bone.
- 4 Calcaneum.
- 5 Shoulder joint.

(4 × 5 = 20 marks)

V. Describe briefly the following :—

- 1 Doppler principles.
- 2 Properties of X-Rays.

(5 × 2 = 10 marks)