

Reg. No.									
----------	--	--	--	--	--	--	--	--	--

## MANIPAL UNIVERSITY

MD (RADIODIAGNOSIS) DEGREE EXAMINATION – APRIL 2008

SUBJECT: PAPER I: PHYSICS AS APPLIED TO RADIO DIAGNOSIS,  
BASIC SCIENCES APPLIED TO RADIO DIAGNOSIS

Tuesday, April 01, 2008

Time: 3 Hrs.

Max. Marks: 100

☞ Answer ALL the questions

1. Describe the radiological anatomy of petrous temporal bone. Describe the radiological techniques of examination of this bone.

(34 marks)

2. Write short notes on the following:

- 2A. Nonscreen film.  
2B. X-ray grids.  
2C. Physical principles of image intensifiers.  
2D. Single phase and 3 phase X-ray equipment.  
2E. Piezo electric effect.  
2F. Iohexol.

**K. M. C. LIBRARY**

(11×6 = 66 marks)



Reg. No.

**MANIPAL UNIVERSITY**

**MD (RADIODIAGNOSIS) DEGREE EXAMINATION – APRIL 2008**

**SUBJECT: PAPER II: RADIOLOGY AND IMAGING RELATED TO THE  
GASTROINTESTINAL TRACT, GENITOURINARY TRACT  
AND CARDIOVASCULAR SYSTEM**

Wednesday, April 02, 2008

Time: 3 Hrs.

Max. Marks: 100

**Answer ALL the questions**

1. Discuss the development of ventricular septum and common types of ventricular septal defect. Discuss radiological findings in Ventricular Septal Defect.

(34 marks)

2. Write short notes on the following:

- 2A. Ileocaecal tuberculosis.  
2B. Gastric ulcer.  
2C. Oesophageal varices.  
2D. Vesicular mole.  
2E. Retrocaval ureter.  
2F. Role of CT in renal trauma.

**K M C LIBRARY**

(11×6 = 66 marks)



Reg. No.									
----------	--	--	--	--	--	--	--	--	--

## MANIPAL UNIVERSITY

MD (RADIOLOGICAL) DEGREE EXAMINATION – APRIL 2008

SUBJECT: PAPER III: RADIOLOGY AND IMAGING RELATED TO NEUROLOGY,  
CHEST AND SKELETAL SYSTEM

Thursday, April 03, 2008

Time: 3 Hrs.

Max. Marks: 100

**Answer ALL the questions**

1. Enumerate the posterior mediastinal masses. How will you approach a case of posterior mediastinal mass?

(34 marks)

2. Write short notes on the following:

- 2A. Osteogenic sarcoma.  
2B. Hypertrophic osteo arthropathy.  
2C. Diaphyseal Achalasia.  
2D. Multiple sclerosis.  
2E. Dandy walker complex.  
2F. Chiari malformations.

(11×6 = 66 marks)



Reg. No.

## MANIPAL UNIVERSITY

### MD (RADIODIAGNOSIS) DEGREE EXAMINATION – APRIL 2008

SUBJECT: PAPER IV: RECENT ADVANCES INCLUDING IMAGING AND CLINICAL RADIOLOGY

Friday, April 04, 2008

Time: 3 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions**

1. Describe the role of neurosonography in an infant with raised intracranial pressure.

(34 marks)

2. Write short notes on:

2A. Doppler versus MR angiography of carotid vessels.

2B. Transvaginal color doppler sonography in the 1<sup>st</sup> trimester.

2C. MR imaging of various stages of intracranial haemorrhage.

2D. Volume scanning with computer tomography.

2E. Tissue harmonic imaging.

2F. Role of MRI in cirrhosis.

(11×6 = 66 marks)



**K. M. C. LIBRARY -**