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## MANIPAL UNIVERSITY

### MD (RADIODIAGNOSIS) DEGREE EXAMINATION – APRIL 2007

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

Monday, April 02, 2007

Time: 3 Hrs.

Max. Marks: 100

**Answer all the questions**

1. Describe in detail the constituent of developer and fixer. Explain how radiographic image is formed on a film.

(34 marks)

2. Write short notes on the following:

2A. Ultrasound transducers.

2B. X-ray grids.

2C. Transcranial sonography.

2D. Radiological anatomy of sella.

2E. CT angiography.

2F. Name the various interactions of x-ray photons with matter and describe any two.

(11×6 = 66 marks)



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## MANIPAL UNIVERSITY

### MD (RADIODIAGNOSIS) DEGREE EXAMINATION – APRIL 2007

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

Tuesday, April 03, 2007

Time: 3 Hrs.

Max. Marks: 100

✍ Answer ALL the questions.

1. Enumerate pre malignant conditions of GIT. Describe radiological features of chronic ulcerative colitis.

(34 marks)

2. Write short notes on the following:

- 2A. Pulmonary stenosis.
- 2B. Left atrial enlargement.
- 2C. Pericardial effusion.
- 2D. Infantile polycystic disease of kidneys.
- 2E. Ureterocoele.
- 2F. Acute scrotum.

(11×6 = 66 marks)



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## MANIPAL UNIVERSITY

MD (RADIOLOGICAL) DEGREE EXAMINATION – APRIL 2007

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

Wednesday, April 04, 2007

Time: 3 Hrs.

Max. Marks: 100

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☞ Answer ALL the questions.

1. Enumerate occupational lung diseases. Describe plain radiographic and CT findings in asbestosis.

(34 marks)

2. Write short notes on the following:

2A. Osteoid osteoma.

2B. Reiter's syndrome.

2C. Role of CT in facio maxillary trauma.

2D. Venous drainage of brain.

2E. Post meningitis sequelae.

2F. Retinoblastoma.

(11×6 = 66 marks)



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## MANIPAL UNIVERSITY

### MD (RADIOLOGICAL) DEGREE EXAMINATION – APRIL 2007

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

Thursday, April 05, 2007

Time: 3 Hrs.

Max. Marks: 100

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☞ Answer ALL the questions.

1. What is storage phosphor radiography? What are the current applications in Radiology?

(34 marks)

2. Write short notes on:

2A. Transvaginal ultrasound.

2B. Fallopian tube recanalisation.

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

2D. Intracavitary sonography.

2E. 3D USG.

2F. Multislice spiral CT.

(11×6 = 66 marks)

