

Reg. No.

MANIPAL UNIVERSITY

MD (RADIODIAGNOSIS) DEGREE EXAMINATION – APRIL 2010

SUBJECT: PAPER I: BASIC SCIENCES

Monday, April 05, 2010

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

Answer ALL the questions.

1. What is maximum permissible dose? Describe the methods of radiation protection to the patient and staff in diagnostic radiology.

(34 marks)

2. **Write short notes on:**

- 2A. Film processor
2B. Focal spot of X-ray tube
2C. Co2 Angiography
2D. Iohexol
2E. Macroradiography
2F. Thermionic emission

(11×6 = 66 marks)



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MD (RADIODIAGNOSIS) DEGREE EXAMINATION – APRIL 2010

SUBJECT: PAPER II: GASTROINTESTINAL TRACT, GENITOURINARY TRACT,
CARDIOVASCULAR SYSTEM AND BREAST

Tuesday, April 06, 2010

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

1. Classify pancreatic neoplasms. Discuss the role of imaging in evaluation of these tumours.

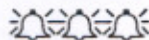
(34 marks)

2. **Write short notes on:**

- 2A. Fetal viability in first trimester
- 2B. Filling defect in the urinary bladder
- 2C. Mitral valvular disease
- 2D. Thoracic aortic aneurysm
- 2E. Calcifications in benign breast disease
- 2F. Mammographic (views) projections

(11×6 = 66 marks)

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SUBJECT: PAPER III: RESPIRATORY SYSTEM, BONES (MUSCULOSKELETAL SYSTEM)
HEAD AND NECK (CNS)

Wednesday, April 07, 2010

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Answer ALL the questions.

1. Discuss various bone tumours of the vertebral column.

(34 marks)

2. Write short notes on:

2A. Lung changes in mitral stenosis

2B. Bronchogenic cyst

2C. Congenital lobar emphysema

2D. Intramedullary tumours of spinal cord

2E. Schizencephaly

2F. Thyroid ophthalmopathy

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(11×6 = 66 marks)



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MD (RADIODIAGNOSIS) DEGREE EXAMINATION – APRIL 2010

SUBJECT: PAPER IV: RECENT ADVANCES

Thursday, April 08, 2010

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

1. Hepatobiliary contrast agents.

(34 marks)

2. **Write short notes on:**

2A. MR Imaging of placenta

2B. MRI in Temporomandibular joint

2C. Gradient echo imaging

2D. Dual source CT

2E. CT dosimetry

2F. MRI in endometrial pathologies

(11×6 = 66 marks)

