

Reg. No.

MANIPAL UNIVERSITY

PG DIPLOMA IN RADIO-DIAGNOSIS (D.M.R.D.) EXAMINATION – APRIL 2013

SUBJECT: PAPER I: BASIC SCIENCES RELATED TO RADIOLOGY (IT CONSISTS OF ANATOMY, PATHOLOGY, BASIC AND RADIATION PHYSICS, TECHNIQUE AND DARK ROOM PROCESSING AND APPARATUS CONSTRUCTION)

Tuesday, April 02, 2013

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer all questions:**

1. Classify intravenous contrast media. What are the advantages of newer generation of contrast Media? Discuss their adverse reactions.

(34 marks)

2. **Write short notes on:**

- 2A. Embryology and anatomy of pancreas  
2B. Describe the cross sectional details of the conventional Xray film and that of a one side coated film  
2C. Co2 Angiography  
2D. MR myelography  
2E. Film processor  
2F. Scattered radiation

(11×6 = 66 marks)



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PG DIPLOMA IN RADIO-DIAGNOSIS (D.M.R.D.) EXAMINATION – APRIL 2013

SUBJECT: PAPER II: CNS INCLUDING HEAD AND NECK, MUSCULOSKELETAL, CHEST,  
MAMMOGRAPHY, C.V.S.

Wednesday, April 03, 2013

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer all questions.**

1. Describe the vascular territories of brain on cross sectional imaging. Discuss the role of imaging in ischemic stroke.

(34 marks)

2. **Write short notes on:**

- 2A. Total anomalous pulmonary venous drainage
- 2B. Benign breast masses
- 2C. Diffuse Idiopathic Skeletal Hyperostosis
- 2D. DNET (Dysembryoplastic Neuro epithelial tumour)
- 2E. Interrupted periosteal reaction
- 2F. Cholesteatoma

(11×6 = 66 marks)



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PG DIPLOMA IN RADIO-DIAGNOSIS (D.M.R.D.) EXAMINATION – APRIL 2013

SUBJECT: PAPER III: ABDOMINAL, IMAGING INCLUDING GI, GU, HEPATOBILIARY,  
INTERVENTIONAL RADIOLOGY, OBST AND GYNAE

Thursday, April 04, 2013

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer all questions.**

1. Discuss the role of an interventional radiologist in hepatic and biliary disease.

(34 marks)

2. **Write short notes on:**

2A. Testicular tumours

2B. Alimentary tract manifestations of systemic sclerosis

2C. Xanthogranulomatous pyelonephritis

2D. Focal nodular hyperplasia (FNH)

2E. Renal angiomyolipoma

2F. Primary sclerosing cholangitis

(11×6 = 66 marks)

