

MANIPAL UNIVERSITY**DIPLOMA IN RADIO-DIAGNOSIS (D.M.R.D.) EXAMINATION – APRIL 2011****SUBJECT: PAPER I: BASIC SCIENCES**

Monday, April 04, 2011

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Answer ALL questions.

1. Describe in detail the structure and principle of Intensifying screen. Discuss the newer phosphor technology.

(34 marks)

2. **Write short notes on:**

- 2A. Describe the cross sectional details of the conventional X-ray film and that of a one side coated film
- 2B. Rotating Anode
- 2C. Mobile x-ray unit
- 2D. CT artifacts
- 2E. Bone densitometry
- 2F. Units of radiation dose

(11×6 = 66 marks)



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DIPLOMA IN RADIO-DIAGNOSIS (D.M.R.D.) EXAMINATION – APRIL 2011

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

Tuesday, April 05, 2011

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Answer ALL questions.

1. Discuss the role of a radiologist in a 40 yr old male patient presenting to the ER with acute abdominal pain in the right hypochondrium and epigastrium.

(34 marks)

2. Write short notes on:

- 2A. Ureterocoele
2B. Benign tumours of kidney
2C. Aortic dissection
2D. Heterotaxy syndromes
2E. BI-RADS
2F. Mammographic signs of malignancy

(11×6 = 66 marks)



Reg. No.

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DIPLOMA IN RADIO-DIAGNOSIS (D.M.R.D.) EXAMINATION – APRIL 2011

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

Wednesday, April 06, 2011

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL questions.**

1. What are the causes of soft tissue ossification and calcification? Describe the radiological features of the various causes.

(34 marks)

2. **Write short notes on:**

- 2A. Wegener's granulomatosis
2B. Fungus ball and its differential diagnosis
2C. Bilateral upper lobe fibrosis of the lung
2D. Multiple sclerosis
2E. Grey Scale ultrasound imaging of posterior segment of eye
2F. Herpes encephalitis

(11×6 = 66 marks)

