

MANIPAL UNIVERSITY**DIPLOMA IN RADIO-DIAGNOSIS (D.M.R.D.) EXAMINATION – APRIL 2009****SUBJECT: PAPER I: BASIC SCIENCES**

Wednesday, April 01, 2009

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

1. Discuss in detail the construction of a grid and explain how it helps in improving the radiographic quality.

(34 marks)

2. **Write short notes on:**

- 2A. Radiation protection.
2B. Larmour frequency.
2C. Compton effect.
2D. Distortion.
2E. Gray Scale ultrasound imaging of neck.
2F. Proton density weighted image.

(11×6 = 66 marks)



MANIPAL UNIVERSITY**DIPLOMA IN RADIO-DIAGNOSIS (D.M.R.D.) EXAMINATION – APRIL 2009****SUBJECT: PAPER II: GIT, GUT, CVS**

Thursday, April 02, 2009

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Answer ALL the questions.

1. How will you investigate a case of cardiomegaly?

(34 marks)

2. **Write short notes on:**

- 2A. Ultrasonography in jaundice.
- 2B. Double contrast study of colon.
- 2C. Ulcerative colitis vs Crohn's Colitis.
- 2D. Nephrocalcinosis.
- 2E. Prune belly syndrome.
- 2F. Renal neoplasms in pediatric age group.

(11×6 = 66 marks)



Reg. No.

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MANIPAL UNIVERSITY**DIPLOMA IN RADIO-DIAGNOSIS (D.M.R.D.) EXAMINATION – APRIL 2009****SUBJECT: PAPER III: RESPIRATORY SYSTEM, BONES AND CNS**

Friday, April 03, 2009

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Answer ALL the questions.

1. Enumerate the causes of haemoptysis. Discuss the chest radiograph and C.T. findings in pulmonary tuberculosis.

(34 marks)

2. **Write short notes on:**

2A. Benign cartilaginous bone tumours.

2B. Cleidocranial dysplasia.

2C. Hemophilia.

2D. Corpus callosal agenesis.

2E. Optic nerve glioma.

2F. Vein of galen malformation.

(11×6 = 66 marks)

