

Reg. No.

MANIPAL UNIVERSITY

DIPLOMA IN RADIO-DIAGNOSIS (D.M.R.D.) EXAMINATION – APRIL 2012

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)

Monday, April 02, 2012

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

Answer all questions:

1. Describe in detail the constituent of developer and fixer used in manual processing. Explain the formation of radiographic image on a film.

(34 marks)

2. Short notes:

- 2A. High KV technique in chest X-ray.
2B. Co₂ Angiography.
2C. Anode Heel effect.
2D. CT Enterography.
2E. Intra operative ultrasound.
2F. MRI artifacts.

(11×6 = 66 marks)



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

Tuesday, April 03, 2012

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

Answer all questions.

1. Discuss the differential diagnosis of an incidentally discovered breast lump and the different modes of investigation you will adopt to arrive at a provisional diagnosis.

(34 marks)

2. Short notes:

- 2A. Cystic malformation of posterior fossa.
- 2B. Hypertensive encephalopathy.
- 2C. Metaphyseal dense bands.
- 2D. Reflex sympathetic dystrophy syndrome.
- 2E. Rheumatoid lung.
- 2F. Respiratory distress Syndrome.

(11×6 = 66 marks)



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

Wednesday, April 04, 2012

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer all questions.**

1. Discuss the role of radiology in imaging and management of female infertility.

(34 marks)

2. **Short Notes:**

2A. Gastrointestinal manifestations of AIDS.

2B. Gestational trophoblastic disease.

2C. Zonal anatomy of prostate.

2D. Transjugular intrahepatic portosystemic shunt.

2E. GIST.

2F. Role of sonography in transplant kidney.

(11×6 = 66 marks)

