Reg. No.

MANIPAL UNIVERSITY

MD (RADIODIAGNOSIS) DEGREE EXAMINATION - APRIL 2009

SUBJECT: PAPER I: PHYSICS AS APPLIED TO RADIO DIAGNOSIS, BASIC SCIENCES APPLIED TO RADIO DIAGNOSIS

Wednesday, April 01, 2009

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- What is digital substraction angiography? Discuss its principle and advantages over conventional angiography system.

(34 marks)

- 2. Write short notes on:
- 2A. Mammography unit.
- 2B. High K V technique in chest xray.
- 2C. Co2 angiography.
- 2D. Anode heel effect.
- 2E. Ultrasound in orbital disease.
- 2F. Anatomy of the retroperitoneum.

 $(11 \times 6 = 66 \text{ marks})$

Reg. No.

MANIPAL UNIVERSITY

MD (RADIODIAGNOSIS) DEGREE EXAMINATION - APRIL 2009

SUBJECT: PAPER II: RADIOLOGY AND IMAGING RELATED TO THE GASTROINTESTINAL TRACT, GENITOURINARY TRACT AND CARDIOVASCULAR SYSTEM

Thursday, April 02, 2009

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

Answer ALL the questions.

 Describe the types of intrauterine growth retardation. How do you assess I.U.G.R. by ultrasound?

(34 marks)

- 2. Write short notes on:
- 2A. Ventricular aneurysm.
- 2B. Left atrial myxoma.
- 2C. Anatomy and development of anomalies of conotruncal septum.
- 2D. Meckel's diverticulum.
- 2E. Hirschprung's disease.
- 2F. Peutz-Jegher syndrome.

 $(11 \times 6 = 66 \text{ marks})$

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MANIPAL UNIVERSITY

MD (RADIODIAGNOSIS) DEGREE EXAMINATION - APRIL 2009

SUBJECT: PAPER III: RADIOLOGY AND IMAGING RELATED TO NEUROLOGY, CHEST AND SKELETAL SYSTEM

Friday, April 03, 2009

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- 1. Role of MRI in the evaluation of the knee joint in ligamental and meniscal injuries.

(34 marks)

- 2. Write short notes on:
- 2A. Round atelectasis.
- 2B. Congenital lobar emphysema.
- 2C. HRCT in interstitial lung disease.
- 2D. Pituitary adenoma.
- 2E. Orbital meningioma.
- 2F. Arteriovenous malformation.

 $(11 \times 6 = 66 \text{ marks})$

Reg. No.		

MANIPAL UNIVERSITY

MD (RADIODIAGNOSIS) DEGREE EXAMINATION - APRIL 2009

SUBJECT: PAPER IV: RECENT ADVANCES INCLUDING IMAGING AND CLINICAL RADIOLOGY

Saturday, April 04, 2009

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- How would you approach a case of sellar/parasellar mass? Discuss the imaging features of craniopharyngioma.

(34 marks)

- Write short notes on:
- 2A. PACS and film-less radiology practice.
- 2B. Balloon angioplasty in arterial disease.
- 2C. Signs of malignant and benign lesions on mammography.
- 2D. 3D USG.
- 2E. Electron beam CT.
- 2F. TACE of hepatic neoplasms.

 $(11 \times 6 = 66 \text{ marks})$

