Reg. No.			

## MD (RADIODIAGNOSIS) DEGREE EXAMINATION – APRIL 2014

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

Tuesday, April 01, 2014

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- & Long Essays.
- 1. Discuss the principles and working of CR system in radiology.

(15 marks)

2. Discuss the basic physics and Instrumentation of a mammographic unit. What are the different mammographic projections?

(15 marks)

- 3. Write short notes on:
- 3A. Embryology and anatomy of pancreas
- 3B. Focal spot of X-ray tube
- 3C. X-ray beam restrictors
- 3D. CT Enterography
- 3E. Inversion Recovery sequence
- 3F. Ultrasound artifacts
- 3G. ICRP recommendations
- 3H. Instrumentations in MRI
- 3I. Blood brain barrier
- 3J. CT detectors



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# MD (RADIODIAGNOSIS) DEGREE EXAMINATION - APRIL 2014

SUBJECT: PAPER II: CVS. RESP. GIT (INCLUDING HEPATO BILIARY), ENDOCRINE, CHEST, MAMMOGRAPHY

Wednesday, April 02, 2014

Γime: 14:00 – 17:00 Hrs.	Max. Marks: 100

- Answer ALL the question.
- Z Long Essays.
- 1. Discuss various cyanotic congenital heart diseases.

(15 marks)

2. Discuss peritoneal spaces and role of imaging in omental lesions.

(15 marks)

- 3. Write short notes on:
- 3A. Focal nodular hyperplasia (FNH)
- 3B. Describe plain radiographic and CT findings of rt. upper lobe pulmonary collapse.
- 3C. Describe etiopathogenesis, common causes, plain film and Ct features of lymphangitiscarcinomatosis.
- 3D. Describe the technical aspects of HRCT of the lung.
- 3E. Pre and post operative assessment in hemodialysis access surgery
- 3F. Imaging in Cardiomyopathies
- 3G. Coronary artery anomalies
- 3H. Neuro enteric cyst
- 31. Normal and abnormal extrinsic impressions on aesophagogram
- 3J. Mammographic signs of malignancy



Reg. No.			

## MD (RADIODIAGNOSIS) DEGREE EXAMINATION - APRIL 2014

SUBJECT: PAPER III: GENITOURINARY, RETROPERITONEUM, CNS INCLUDING HEAD AND NECK, MUSCULOSKELETAL SYSTEM, OBST. & GYNAE, ENT AND EYE AND INTERVENTIONAL RADIOLOGY

Thursday, April 03, 2014

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

- answer ALL the questions.
- & Long Essays.
- 1. What are the different types of periosteal reactions? Discuss the imaging features of osteomyelitis.

(15 marks)

2. Discuss in brief imaging features of various infective diseases of the kidney.

(15 marks)

- 3. Write short notes on:
- 3A. Imaging in Otitis media
- 3B. Enchondroma
- 3C. Vesicoureteric reflux
- 3D. Hypertensive encephalopathy
- 3E. Osteochondroma
- 3F. Neurogenic bladder
- 3G. Atypical meningiomas
- 344. Solitary bone cyst
- 31. Pituitary microadenoma
- 3J. Hysterosalpingography



Reg. No.
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# MD (RADIODIAGNOSIS) DEGREE EXAMINATION - APRIL 2014

SUBJECT: PAPER IV: RECENT ADVANCES AND NUCLEAR MEDICINE RADIOLOGY RELATED TO CLINICAL SPECIALITIES

Friday, April 04, 2014

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- **E** Long Essays.
- 1. Describe the instrumentation and principles of Radiofrequency ablation. Discuss the indications, patient selection, procedure and complications of its various implications.

(15 marks)

2. Discuss the role of MRI in imaging of the myocardium.

(15 marks)

- 3. Write short notes on:
- 3A. MRI in bone marrow disease of the spine
- 3B. Flat panel detector CT
- 3C. What are the advantages of 3T MRI over 1.5T MRI? Comment on its limitations.
- 3D. MR elastography
- 3E. Constructive interference in steady state
- 3F. T2 relaxometry
- 3G. Computer aided detection system
- 3H. Cryotherapy
- 31. Yttrium embolization
- 3J. Flat panel detector