Reg. No.

MD (RADIODIAGNOSIS) DEGREE EXAMINATION – OCTOBER 2017

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

Tuesday, October 03, 2017

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- **Z** Long Questions:
- 1. Discuss the principles and applications of Multislice volumetric spiral CT.

(15 marks)

2. What are the properties of X-rays? Discuss the biological effects of radiation.

(15 marks)

- 3. Short Questions:
- 3A. Describe the cross sectional details of the conventional X-ray film and that of a one side coated film.
- 3B. Peizo electric effect
- 3C. Fetal circulation
- 3D. Macroradiography
- 3E. Cross sectional anatomy of suprarenal glands. Enumerate hormones secreted by zones of suprarenal glands.
- 3F. Hazards and safe practice in MRI
- 3G. High frequency generators
- 3H. Time gain compensation (TGC) and dynamic range in ultrasound.
- 3I. Dacryocystography
- 3J. CT artifacts

 $(7 \text{ marks} \times 10 = 70 \text{ marks})$

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MD (RADIODIAGNOSIS) DEGREE EXAMINATION – OCTOBER 2017 SUBJECT: PAPER II: CVS, RESP, GIT (INCLUDING HEPATOBILIARY), ENDOCRINE, CHEST, MAMMOGRAPHY

Wednesday, October 04, 2017

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer ALL the question.
- ∠ Long Questions:
- 1. Discuss various cyanotic congenital heart diseases.

(15 marks)

2. Breast calcifications: Mammographic evaluation.

(15 marks)

- 3. Short questions:
- 3A. Alveolar Microlithiasis
- 3B. Sub pulmonic effusion
- 3C. Pulmonary hamartoma
- 3D. Neuro enteric cyst
- 3E. Duodenal tumours
- 3F. Biliary atresia
- 3G. Popliteal artery entrapment syndrome
- 3H. MRI in pericardial pathology
- 31. Heterotaxy syndromes
- 3J. BI-RADS

 $(7 \text{ marks} \times 10 = 70 \text{ marks})$

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MD (RADIODIAGNOSIS) DEGREE EXAMINATION - OCTOBER 2017

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

Thursday, October 05, 2017

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- ∠ Long Questions:
- 1. Discuss the role of imaging in thyroid gland disorders.

(15 marks)

2. Discuss the radiographic and sonographic findings in developmental dysplasia of hip.

(15 marks)

- 3. Short questions:
- 3A. Adamantinoma
- 3B. Toxoplasmosis
- 3C. Medullary sponge kidney
- 3D. Slipped capital femoral epiphysis
- 3E. Leukocoria
- 3F. Neuroblastoma
- 3G. MRI in cruciate ligament tear
- 3H. Lumbar spinal stenosis
- 31. Gestational trophoblastic disease
- 3J. MRI technique and normal anatomy of the uterus

 $(7 \text{ marks} \times 10 = 70 \text{ marks})$

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MD (RADIODIAGNOSIS) DEGREE EXAMINATION – OCTOBER 2017 SUBJECT: PAPER IV: RECENT ADVANCES AND NUCLEAR MEDICINE RADIOLOGY RELATED TO CLINICAL SPECIALITIES

Friday, October 06, 2017

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- ∠ Long Questions:
- 1. Discuss the role of MRI in breast diseases.

(15 marks)

2. Describe segmental anatomy of the liver. Discuss imaging in liver transplantation.

(15 marks)

- 3. Short questions:
- 3A. MR Imaging of placenta
- 3B. MRI in pelvic floor imaging
- 3C. Extra CNS utility of diffusion weighted imaging
- 3D. MR Tractography
- 3E. Cartilage imaging
- 3F. Ultrasound contrast media
- 3G. Post processing techniques in HRCT lung
- 3H. Gradient echo imaging
- 31. Chemical shift imaging
- 3J. Denta CT and its clinical applications

 $(7 \text{ marks} \times 10 = 70 \text{ marks})$