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MANIPAL ACADEMY OF HIGHER EDUCATION PG DIPLOMA IN RADIO-DIAGNOSIS (DMRD) EXAMINATION – MAY 2021

PAPERI

Monday, May 03, 2021

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- ∠ Long answer questions:
- 1. Discuss in detail the construction of a grid and explain how it helps in improving the radiographic quality.

(15 marks)

2. Define film contrast. Enumerate various factors affecting film contrast. Briefly discuss methods to improve it.

(15 marks)

- 3. Short answer questions:
- 3A. Nephrogenic systemic fibrosis.
- 3B. CT artifacts
- 3C. Myelography
- 3D. Post processing techniques in MDCT and their utility
- 3E. Segmental anatomy of liver and its importance
- 3F. PACS
- 3G. Peizo electric effect
- 3H. Pregnancy and radiation
- 3I. Automated exposure control.
- 3J. Ultrasonic display modes

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

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MANIPAL ACADEMY OF HIGHER EDUCATION PG DIPLOMA IN RADIO-DIAGNOSIS (DMRD) EXAMINATION – MAY 2021

PAPER II

Tuesday, May 04, 2021

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

- ∠ Long answer questions:
- 1. Describe the anatomy of sella and parasellar regions. Describe imaging features of pituitary adenoma in detail.

(15 marks)

Classify various congenital lung diseases. Discuss the pre and postnatal imaging features of congenital cystic adenomatoid malformation.

(15 marks)

- 3. Short answer questions:
- 3A. BI-RADS
- 3B. Aneurysmal bone cyst
- 3C. Subclavian steal syndrome
- 3D. Imaging in brain death
- 3E. Bronchopulmonary aspergillosis
- 3F. Pyogenic and tuberculous osteomyelitis of spine
- 3G. Partial anomalous pulmonary venous drainage
- 3H. Osteogenesis imperfecta
- 3I. MR cerebral venography
- 3J. Mediastinal lines and stripes

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

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MANIPAL ACADEMY OF HIGHER EDUCATION PG DIPLOMA IN RADIO-DIAGNOSIS (DMRD) EXAMINATION – MAY 2021

PAPER III

Wednesday, May 05, 2021

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- ∠ Long answer questions:
- Describe embryology of gut rotation and fixation. Discuss the differential diagnosis of a neonate with bilious vomiting.

(15 marks)

2. What are the causes of hematuria? Describe the imaging approach in a case of hematuria.

(15 marks)

- 3. Short answer questions:
- 3A. Budd chiari syndrome
- 3B. Neurogenic bladder
- 3C. Ultrasound and Doppler sonography in portal hypertension.
- 3D. Testicular tumours
- 3E. Transjugular intrahepatic portosystemic shunt
- 3F. Adrenal incidentiloma
- 3G. Motility disorder of oesophagus
- 3H. Ovarian follicular monitoring
- 3I. TACE- chemoembolisation of liver tumours.
- 3J. Doppler in ovarian neoplasm

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