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(LC 1514) **APRIL 2013**

Sub. Code: 3019

DIPLOMA IN MEDICAL RADIODIAGNOSIS (DMRD)
EXAMINATION
MEDICAL RADIATION PHYSICS AS APPLIED TO RADIODIAGNOSIS

Q.P. Code : 343019

Time: Three Hours **Maximum: 100 marks**

I. Elaborate on: **(2X15=30)**

1. Define scatter radiation. Comment briefly on the factors controlling scatter radiation.

2. Define roentgen. Mention various recommendations on Maximum permissible dose for patients and staff members in radiology department.

II. Write notes on: **(10X7=70)**

1. Adverse reactions of MR contrast media.
2. Doppler artefacts.
3. Gradient echo sequences.
4. Principles, types of bone densitometry.
5. Describe the basics of BOLD imaging.
6. Principles of ultrasound elastography.
7. Factors which affect the radiographic quality of image.
8. Beam hardening artefacts.
9. Stationary and moving X – rays grids.
10. Primary and secondary radiation.

(LC 1515) **APRIL 2013** **Sub. Code: 3020**

DIPLOMA IN MEDICAL RADIODIAGNOSIS (DMRD) EXAMINATION

RADIODIAGNOSIS AND IMAGING

Q.P. Code : 343020

Time: Three Hours **Maximum: 100 marks**

I. Elaborate on: **(2X15=30)**

1. Write in detail about Radiological Anatomy of mediastinum. Imaging of paravertebral masses.

2. Imaging of portal hypertension. Briefly mention about interventions in portal hypertension.

II. Write notes on: **(10X7=70)**

1. Role of sonohysterography in DUB.
2. Radiological CVJ anatomy – Lines and angles
3. Thyroid ophthalmopathy
4. Imaging of types of ureterocele
5. .Diagnostic Barium enema features of Hirschsprung's disease
6. Imaging features of Budd Chiari syndrome
7. Acroosteolysis
8. Sonographic diagnostic features of Ectopic pregnancy
9. Senile osteoporosis
10. Diagnostic approach to posterior fossa cysts

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(LC 1516) **APRIL 2013** **Sub. Code: 3021**

DIPLOMA IN MEDICAL RADIODIAGNOSIS (DMRD) EXAMINATION

RADIODIAGNOSIS INCLUDING NUCLEAR MEDICINE

Q.P. Code : 343021

Time: Three Hours **Maximum: 100 marks**

I. Elaborate on: **(2X15=30)**

1. Causes of intracranial space occupying lesions. Discuss the role of imaging in various intracranial space occupying lesions and differential diagnosis.

2. Classify Cervical spine injuries. Describe the methods of assessment of young adult male with Road traffic accident with quadriparesis.

II. Write notes on: **(10X7=70)**

1. Describe the pathology and imaging features of Pulmonary sequestration
2. Describe the radiological features of Osteopetrosis
3. Discuss the, imaging features of renal artery Stenosis
4. Classify Choledochal cysts. Describe the differential Diagnosis
5. Clinical features and investigation of Pelvic Congestion Syndrome
6. Clinical and radiological features of Mesothelioma
7. Pathology and imaging features of Acoustic schwanoma
8. Embryology of normal midgut rotation, Malrotation and Midgut volvulus
9. Classify Ovarian cysts and write briefly on Ovarian adenocarcinoma
10. Describe the technique of Cranial sonography

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