

**RAJIV GANDHI UNIVERSITY OF HEALTH SCIENCES, (RGUHS),  
KARNATAKA,**

**M.D / D.M.R.D RADIODIAGNOSIS QUESTION PAPERS (2018-2004)**

**M.D. – NOV-2018, PAPER - I**

1. Discuss newer imaging contrast media.
2. Discuss role of conventional radiology and newer imaging modalities.
3. Osteoid osteoma.
4. Digital Subtraction Angiography
5. Perthe's disease
6. Radiological anatomy of larynx
7. Radiographic grids, its types and applications
8. Radiation protective devices and recent Atomic Energy Regulatory Board (AERB) guidelines
9. AERB guidelines for radiation safety
10. Sonohysterography

**M.D. - NOV 2018, Paper -II**

1. Differential diagnosis of right iliac fossa pain in female and imaging features of ileo-caecal Koch's
2. Describe in detail radiological imaging of acute pancreatitis and its complication. Intussusception
3. Congenital diaphragmatic hernia
4. Imaging of Biliary atresia
5. Virtual bronchoscopy
6. GIST - radiological findings and differential diagnosis
7. Barium swallow techniques.
8. Imaging finding in Esophageal candidiasis
9. Diagnosis of pulmonary infarction
10. Imaging in adrenal neoplasms

**M.D. - NOV 2018, Paper -III**

1. Classify the renal tumours. Discuss the radiological imaging and radiological management of renal cell carcinoma.
2. Discuss the types of aortic dissection and role of radiological imaging and radiological management of dissection.
3. Imaging in ectopic gestation
4. Anterior and posterior urethral valves
5. IVC filter
6. Tetralogy of Fallot
7. Transrectal ultrasound of prostate
8. Hysterosalpingography
9. Imaging in intrauterine fetal death
10. Define fetal hydrops. Enumerate its causes and describe its sonographic findings.

**M.D. - NOV 2018, Paper -IV**

1. Classify meningiomas. Discuss role of imaging
2. Role of MR imaging in renal diseases
3. Acoustic neuroma
4. Sacrococcygeal teratoma

5. osteopetrosis
6. Fistulogram
7. MR in soft tissue lesions
8. Ovarian cyst - interventional procedures
9. Radiological features in neurological complication of AIDS
10. Functional imaging of Brain

#### **D.M.R.D. - NOV 2018, Paper -I**

1. Radiographic and CT findings in lung collapse
2. Imaging of temporal bone and internal auditory canal
3. Air gap technique
4. Segmental anatomy of liver and its importance
5. Perthe's disease
6. Salter Harris fractures
7. MRI in avascular necrosis of hip.
8. Photoelectric effect
9. Computed radiography and digital radiography
10. Imaging in central bronchogenic carcinoma

#### **D.M.R.D. - NOV 2018, Paper -II**

1. Imaging features of acyanotic congenital heart disease
2. Discuss the role of imaging in pancreatic tumours.
3. Pathology and imaging features of Budd Chiari syndrome.
4. Ultrasound and CT imaging of appendicitis
5. Radiological evaluation of malrotation of the intestine.
6. Ultrasonographic findings in abdominal tuberculosis.
7. Ultrasound and Doppler features of Deep Vein Thrombosis.
8. Enumerate and briefly write about the embolic agents.
9. CT angiography VS MR angiography
10. CT guided biopsy lung lesions and its complications

#### **D.M.R.D. - NOV 2018, Paper -III**

1. Enumerate renal masses in children and Describe the imaging features of Wilm's tumour.
2. Role of colour doppler in carotid and vertebral arterial diseases
3. Medullary sponge kidney
4. Renal vein thrombosis
5. Pyeloureteritis cystica.
6. Cerebral lymphoma
7. Pituitary adenoma
8. Cerebral herniation
9. Enumerate the infrahyoid neck spaces and describe the imaging features of carotid body tumour.
10. Enumerate the common locations of ectopic pregnancy and discuss the sonographic findings of ectopic

#### **M.D. - MAY 2018, Paper - I**

1. Explain about metabolic disorders of bone and how to arrive at diagnosis on plain radiograph.
2. Describe the principles of multidetector CT and the various reconstruction methods.
3. What is filtration? Explain in detail about different levels of filtration used in X ray.

4. Differential diagnosis of lesions of mandible
5. Avascular necrosis
6. Radiological features of skeletal tuberculosis
7. Benign expansile lesion of long bone
8. Giant cell tumours
9. Classify idiosyncratic reactions resulting from contrast media administration. Describe the management of life-threatening adverse reactions.
10. Clinical applications and techniques of fat suppression in MRI

**M.D. - MAY 2018, Paper - II**

1. Discuss the causes of portal hypertension. Write in detail about the Sonographic & doppler evaluation of Cirrhosis and Portal hypertension.
2. Describe in detail the various types of adrenal masses. Explain the various imaging modalities with salient findings to differentiate the masses.
3. Imaging findings of ulcerative colitis
4. Oesophageal varices
5. Congenital lobar emphysema
6. Focal nodular hyperplasia - imaging with differential diagnosis
7. Imaging in pulmonary edema
8. Retroperitoneal fibrosis and its differential diagnosis
9. MRCP in obstructive jaundice
10. Role of MDCT in staging of carcinoma of lung

**M.D. - MAY 2018, Paper - III**

1. Classify cardiomyopathy. Discuss in detail role of various modalities and salient imaging features in cardiomyopathy.
2. Describe pathology, role of imaging and radiological features in urinary tract trauma.
3. Write briefly on role of isotopes v/s MR imaging in myocardial ischemia
4. Imaging of a child with obstructive uropathy
5. How do you investigate a case of unilateral leg edema?
6. Embryological and imaging considerations in a case of cryptorchidism
7. How would you approach and counsel a pregnant woman with fetal cardiac defect?
8. What are the causes of emergency in 3rd trimester pregnancy? How will you investigate?
9. Coronary imaging
10. MRI of cardiac tumours

**M.D - MAY 2018, Paper - IV.**

1. Describe in detail the imaging findings and differential diagnosis of unilateral proptosis.
2. What are phakomatoses? Discuss the role of imaging of brain in it.
3. Intraosseous Hemangioma
4. Hydrocephalus
5. Esthesioneuroblastoma
6. Ameloblastoma mandible
7. Branchial cleft cyst - Ultrasound imaging
8. Subarachnoid hemorrhage
9. Role of imaging and intervention in Dural arteriovenous fistula
10. Imaging in laryngeal carcinoma

**D.M.R.D. - MAY 2018, Paper -I**

1. Discuss about mammography X ray unit.
2. MR spectroscopy
3. Radionuclide scanning in a bony lesion
4. Biological effects of radiation and measures taken against its protection for radiation workers and patient.
5. Describe etiopathogenesis, causes and imaging features of lymphangitis carcinomatosa.
6. Describe normal anatomy of knee as seen on MRI.
7. Imaging in pulmonary thromboembolism
8. Radiological features of osteosarcoma
9. Describe Etiopathogenesis of osteomyelitis. Discuss role of imaging in chronic osteomyelitis.
10. Imaging and associations of fibrous dysplasia.

**D.M.R.D. - MAY 2018, Paper -II**

1. Imaging finding of ileo-caecal tuberculosis. Describe the features that are useful to differentiate it from Crohn's disease.
2. Pheochromocytoma
3. Congenital anomalies of aortic arch and its major branches
4. Ebstein's anomaly
5. Cardiac CT
6. Carcinoid tumours
7. Pathophysiology and imaging features in small bowel lymphoma
8. Choledochal cyst
9. Benign lesions of the liver
10. Radiological features in cystic tumours of pancreas

**D.M.R.D. - MAY 2018, Paper - III**

1. How will you investigate a case of painless haematuria? What is the role of radiologist in its management?
2. Radiological diagnosis of congenital lesion of kidney
3. MRI in intramedullary neoplasms of spinal cord
4. Differential diagnosis of ring enhancing lesions in brain in an immune compromised patient
5. Describe the clinical features and MR imaging features of multiple sclerosis.
6. Role of sonography in IUGR
7. Antenatal evaluation of neural tube defects
8. PC PNDT Act
9. Imaging features of fungal sinusitis
10. Imaging in orbital trauma

**D.M.R.D. - Nov 2017, Paper - I**

1. Radiological features of seronegative arthropathies
2. Methods used to improve radiographic film quality
3. Pulmonary mycetoma
4. Slip ring technology
5. Rickets
6. Congenital lobar emphysema
7. Aneurismal bone cyst
8. Bronchiectasis

9. Ultrasound image artifacts
10. Segmental anatomy of liver and its Importance

**D.M.R.D. - Nov 2017, Paper - II**

1. Enumerate the causes of mechanical small bowel obstruction in an adult. Describe the differentiating features of small and large bowel obstruction on plain radiography and the role of CT in small bowel obstruction.
2. What are the various causes of bilateral adrenal masses and describe the characteristic features on imaging in two such causes?
3. Pathogenesis, classification and imaging of dissecting aneurysm of Aorta
4. Imaging in ischemic heart disease
5. Radiological approach in cyanotic heart disease
6. Role of radiology and imaging in intestinal ischemia
7. CT and endoscopic ultrasound staging of esophageal carcinoma
8. Discuss the etiology, classification, imaging features and complications of choledochal cyst.
9. Ultrasonography features in cirrhosis of liver with portal hypertension
10. Describe CT features of liver trauma and discuss the role of intervention in this.

**D.M.R.D. - Nov 2017, Paper - III**

1. Classify various orbital tumours. Describe radiological features of tumour affecting the eyeball (globe)
2. Discuss the imaging findings of renal neoplasms in pediatric age group.
3. Briefly discuss radionuclide imaging of urinary tract.
4. Discuss various HIV manifestations in Central Nervous System.
5. Role of sonography in bleeding in first trimester pregnancy.
6. Cystic lesions in infratentorial region.
7. Corpus callosal agenesis.
8. Epidermoid.
9. Enumerate markers of chromosome abnormality on antenatal ultrasound and discuss their sonographic features.
10. Discuss the role of imaging in renal trauma.

**M.D. - MAY 2017, Paper - I, (Revised scheme)**

**LONG ESSAY**

1. Classify the tumors in and around knee joint? Describe imaging features of osteogenic sarcoma
2. Draw a diagram of Bronchopulmonary segments. Discuss the role of H.R.C.T in interstitial lung diseases.

**SHORT ESSAY**

3. Percutaneous Transhepatic cholangiogram
4. Atrial septal defect
5. Thalassemia
6. Achalasia cardia
7. Role of MRI in liver masses
8. Renal Doppler

**M.D. - MAY 2017, Paper -II, (Revised scheme)**

**LONG ESSAYS**

1. Discuss the role of Imaging in a case of blunt abdominal trauma.
2. Describe the mechanism and causes of lung collapse. Discuss the imaging features of various pattern of lung collapse.

#### SHORT ESSAYS

3. Write short note on syndromes with GIT polyposis.
4. Radiological assessment of Portal hypertension
5. Short note on Gastroesophageal reflux disease (GERD)
6. Imaging findings in pulmonary sarcoidosis
7. Imaging findings in Scimitar syndrome
8. Short note on germ cell tumours of mediastinum

#### **M.D. - MAY 2017, Paper -III, (Revised scheme)**

##### LONG ESSAYS

1. Discuss the role of ultrasound and MRI in carcinoma of endometrium and carcinoma of cervix.
2. Enumerate the causes of thoracic aortic aneurysm and what is the role of plain radiograph, CT, Ultrasound, MRI in its diagnosis.

##### SHORT ESSAYS

3. Renal angiomyolipoma
4. Urachal - masses
5. Varicocele
6. Vesico ureteral reflux
7. Vesicular mole
8. CT urography

#### **M.D. - MAY 2017, Paper -IV, (Revised scheme)**

##### LONG ESSAY

1. Classify spinal tumours and discuss in detail role of various imaging modalities. Describe salient imaging features in various intramedullary tumours.
2. Describe radiological anatomy of sub arachnoid space. Discuss the causes, role of imaging and intervention in subarachnoid bleed.

##### SHORT ESSAY

3. Describe blood brain barrier and its role in Neuroimaging.
4. Classify cystic lesions of mandible and briefly imaging features in odontogenic lesions.
5. How do you investigate a case of fungal sinusitis?
6. Radiological anatomy and importance of neck spaces
7. Describe anatomy of optic nerve and imaging approach at various levels.
8. What is the role of trans cranial Doppler in intracranial vascular disease?

#### **D.M.R.D. - MAY 2017, Paper -I, (Revised scheme)**

##### LONG ESSAYS

1. Enumerate the seronegative arthropathies and discuss in detail the radiological
2. Describe the principles of computed radiography (CR) and digital radiography (DR) and discuss various types of Computed Radiography Artefacts with

##### SHORT ESSAYS

3. Ultrasound transducer

4. X-ray grids
5. Solitary Pulmonary nodule
6. Anatomy of the retroperitoneum
7. Gout and pseudo gout
8. Rectifiers

**D.M.R.D. - MAY 2017, Paper -II, (Revised scheme)**

LONG ESSAY

1. Discuss in detail the imaging features of pancreatitis
2. Describe the development of interatrial septum and radiological features of atrial septal defects

SHORT ESSAY

3. Gastric volvulus
4. Tumours of the heart
5. Diverticular disease of colon
6. Pericardial effusion
7. Cholecystitis
8. Double aortic arch

**D.M.R.D. - MAY 2017, Paper -III, (Revised scheme)**

LONG ESSAY

1. Classify bladder tumours. Describe the imaging features of bladder carcinoma
2. Describe imaging features of Chiari malformations

SHORT ESSAY

3. Pelviureteric junction obstruction
4. Retinoblastoma
5. Placenta accreta
6. Hysterosalpingography
7. Craniopharyngioma
8. Adult polycystic kidney disease

**M.D. - JUNE 2016, Paper -I, (Revised scheme)**

LONG ESSAYS

1. Write in detail radiographic techniques of the following:
  - a) Temporo-mandibular Joint
  - b) Scaphoid view
  - c) Skyline view of patella
  - d) Towne's view
2. Describe calcium metabolism and the radiological changes in hyperparathyroidism.

SHORT ESSAYS

3. Paramagnetic contrast media
4. Embryology and radiological anatomy of pancreas
5. Personal Dosimetry Systems
6. Ankylosing spondylitis
7. Renal rickets
8. Computed Radiography and its principles

**M.D. - JUNE 2016, Paper -II, (Revised scheme)**

LONG ESSAY

1. Discuss radiological anatomy of the mediastinum and role of CT & MRI in carcinoma of oesophagus
2. Discuss common causes of pediatric acute abdomen & imaging features of mesenteric lymphadenitis & intussusception

SHORT ESSAY

Mendelson's syndrome

3. Collapse pattern of lung
4. Necrotizing enterocolitis (N E C)
5. Intestinal Polyposis
6. Mesenteric cyst
7. Bronchopulmonary segments

**M.D. - JUNE 2016, Paper -III, (Revised scheme)**

LONG ESSAYS

1. Discuss the pre-procedural work-up of a patient posted for peripheral angioplasty. Describe the procedure of a peripheral angioplasty.
2. Discuss the grades of renal injury and radiological investigations and imaging appearances in a case of renal trauma.

SHORT ESSAYS

3. MRI features of endometrial carcinoma
4. Role of sonography in renal transplant
5. Medullary sponge kidney
6. Sonography features of placenta previa
7. Infantile polycystic disease of kidneys
8. Ultrasound findings in polycystic ovaries

**M.D. - JULY 2016, Paper -IV, (Revised scheme)**

LONG ESSAYS

1. Discuss the differential diagnosis and imaging features of infratentorial tumours in Paediatric age group.
2. Classify the common types of spinal dysraphism and discuss their imaging features.

SHORT ESSAYS

3. Intramedullary tumours of the spinal cord
4. Orbital pseudotumour
5. Carotid-cavernous fistula
6. Esthesioneuroblastoma
7. Mucocele of the paranasal sinuses
8. Craniosynostosis

**M.D. - NOV 2016, Paper -I, (Revised scheme)**

LONG ESSAY

1. What is scattered radiation? Discuss hazards of radiation and measures to prevent scattered radiation.



2. Discuss imaging finding of various Sino nasal disorders

#### SHORT ESSAY

3. Dry film processor
4. Radiography of temporomandibular joint with applications
5. Tetralogy of Fallot
6. Endoscopic ultrasonography
7. Coils used in MRI
8. Tuberculosis of urinary bladder

#### **M.D. - NOV 2016, Paper -II, (Revised scheme)**

##### LONG ESSAYS

1. Discuss the role of imaging in upper GI obstruction in pediatric age group.
2. Imaging findings in the chest of immunocompromised patient

##### SHORT ESSAYS

3. Write differentials of posterior mediastinal masses.
4. Write short note on adrenal neuroblastoma
5. Short note on focal nodular hyperplasia of liver
6. Imaging findings in adenomyomatosis of the gall bladder
7. Role of PET scan in hepato biliary diseases
8. Short note on Anorectal malformation

#### **M.D. - NOV 2016, Paper -III, (Revised scheme)**

##### LONG ESSAY

1. Discuss the different types of shadowing encountered on a pathological chest radiograph. Discuss the differential diagnosis of a coin shadow in the lung with role of various imaging modalities.
2. Describe pathophysiology and imaging in pituitary neoplasms

##### SHORT ESSAY

3. Calcifications on mammogram
4. Hysterosalpingography
5. MRCP
6. Ultrasonography in foetal growth
7. MR in knee injury
8. Tubercular meningitis – its imaging

#### **M.D. - NOV 2016, Paper -IV, (Revised scheme)**

##### LONG ESSAYS

1. Neuroimaging in AIDS
2. Discuss the role of imaging in infections and infestations of the adult brain.

##### SHORT ESSAYS

###### Chordoma

3. Hypoxic ischemic encephalopathy
4. Migration anomalies of the brain
5. Glomus jugulare
6. Lemon sign and banana sign, its significance

7. Optic nerve meningioma

### **M.D. - OCTOBER 2015, PAPER - I (Revised Scheme)**

#### LONG ESSAYS

1. Discuss the Basic principle of Computed Radiography (CR) system and describe various types of Computed Radiography Artefacts with methods to rectify them.
2. Enumerate the causes for periosteal reaction. Discuss the imaging appearances on various modalities of osteomyelitis.

#### SHORT ESSAYS

3. Sickle cell anaemia
4. Radiological Features of hyperparathyroidism
5. Achondroplasia
6. Line-focus principle
7. Image Intensifier
8. Rotating Anode and Its uses and disadvantages

### **D.M.R.D - JUNE 2016, PAPER – I (Revised Scheme)**

#### LONG ESSAY

1. Describe the principle of Multi Detector computerized Tomography (M.D.C.T)
2. Describe C.T Anatomy of Mediastinum. Describe C.T. Features of Thymoma.

#### SHORT ESSAY

3. Radiological Features of Carcinoma of Bronchus.
4. Radiography of Paranasal sinuses.
5. Computed Radiography- Principles, Advantages, Disadvantages.
6. Factors Contributing MRI contrast.
7. Principle of Doppler Imaging.
8. Osteosarcoma.

### **D.M.R.D - JULY 2016, PAPER – II (Revised Scheme)**

#### LONG ESSAYS

1. Discuss the role of radiologist in diagnosis and management of a patient with vascular claudicating pain.
2. Discuss the role of imaging in paediatric abdominal mass.

#### SHORT ESSAYS

3. CT Imaging of hepatocellular carcinoma
4. Imaging of hemangioma of liver
5. Gastrointestinal manifestations of AIDS
6. Imaging in cholecystitis
7. Imaging in hepatic trauma
8. Imaging in Cardiogenic Vs Non-Cardiogenic pulmonary edema

### **D.M.R.D - JULY 2016, PAPER – III (Revised Scheme)**

#### LONG ESSAYS

1. Discuss the imaging and angiography features spinal vascular malformations.
2. Discuss the role of radiology in diagnosing urothelial tumours.

## SHORT ESSAYS

3. Schizencephaly
4. Cystic lesions in infratentorial region
5. Corpus callosal agenesis
6. Nephrocalcinosis
7. Fallopian tube recanalization
8. Doppler findings in IUGR

## **D.M.R.D – NOV 2016, PAPER – I (Revised Scheme)**

### LONG ESSAY

1. What are the different interactions of x rays with matter? Describe in detail two of them with their application in radiography
2. Describe sequence of changes seen in acute and chronic osteomyelitis as seen on plain radiograph. Discuss role of isotopes, ultrasound CT and MRI in its diagnosis

### SHORT ESSAY

3. Transducer
4. Diaphragmatic hernia
5. Enchondroma
6. Bronchogenic cyst
7. Chest radiographic signs of pulmonary edema
8. Radiographic changes in scurvy

## **D.M.R.D – NOV 2016, PAPER – II (Revised Scheme)**

### LONG ESSAY

1. Describe the causes, clinical presentation and imaging features of Hepatic veno-occlusive diseases. Discuss the role of interventional radiologist.
2. Classify congenital heart diseases. Discuss in detail anomalous pulmonary venous drainage.

### SHORT ESSAY

3. Acute cholecystitis – imaging modalities and merits
4. Oesophageal motility disorders
5. Role of MRI in cardiomyopathy
6. Dissecting aneurysm of Aorta – imaging features and intervention
7. Causes and imaging features of ischemic bowel
8. Imaging and interventions in pseudocyst of the pancreas

## **D.M.R.D – NOV 2016, PAPER – IV (Revised Scheme)**

### LONG ESSAY

1. What is phakomatosis? Name the various conditions considered in this group and discuss the radiological features of Neurofibromatosis.
2. Discuss the role of radiology and imaging in diagnosing malignant and benign ovarian tumours.

### SHORT ESSAY

3. Empty sella
4. Pseudo tumours of orbit

5. Renal vein thrombosis
6. Sturge weber syndrome
7. Pelviureteric junction obstruction
8. Pheochromocytoma

#### **M.D. - OCTOBER 2015, PAPER - I (Revised Scheme)**

##### LONG ESSAYS

1. Discuss the Basic principle of Computed Radiography (CR) system and describe various types of Computed Radiography Artefacts with methods to rectify them.
2. Enumerate the causes for periosteal reaction. Discuss the imaging appearances on various modalities of osteomyelitis.

##### SHORT ESSAYS

3. Sickle cell anaemia
4. Radiological Features of hyperparathyroidism
5. Achondroplasia
6. Line-focus principle
7. Image Intensifier
8. Rotating Anode and its uses and disadvantages

#### **M.D. - OCTOBER 2015, PAPER - III (Revised Scheme)**

##### LONG ESSAY

1. A 40-year-old female presents with PV bleeding. Discuss the role of various Imaging modalities in arriving at diagnosis.
2. Discuss the role of MRI in hepatobiliary disease

##### SHORT ESSAY

3. Transrectal ultrasonography of anorectal fistulas
4. PTC (Percutaneous Transhepatic Cholangiography}
5. Holoprosencephaly
6. Congenital dislocation of hip joint
7. Cystic hygroma
8. Pulmonary arterio - venous malformation

#### **M.D. - OCTOBER 2015, PAPER - IV (Revised Scheme)**

##### LONG ESSAYS

1. Discuss the role of CT and MRI in evaluating the ring enhancing lesions of the brain.
2. Classify spinal tumours. How will you localize an intra spinal mass on myelography. Discuss the differential diagnosis and imaging features of extradural spinal tumour.

##### SHORT ESSAYS

3. Metachromatic leukodystrophy
4. Epidermoid
5. Fungal sinusitis
6. Tuberous sclerosis
7. Cholesteatoma
8. Medulloblastoma

**M.D. - APRIL/ MAY 2015, PAPER – I, {Revised Scheme),**

**LONG ESSAYS**

1. Discuss the basic principle of Magnetic Resonance Imaging.
2. What are the causes of hip pain in early childhood? Discuss the Imaging findings in congenital dislocation of hip/ Developmental dysplasia of hip.

**SHORT ESSAYS**

3. Segmental anatomy of liver and its importance
4. Computed Radiography versus Digital Radiography
5. PACS
6. CT scan detectors
7. Radionuclide scan in evaluation of a skeletal lesion
8. Degenerative disc disease

**M.D. - MAY 2015, PAPER – II, {Revised Scheme),**

**LONG ESSAYS**

1. Classify adrenal lesions. Discuss various imaging modalities in diagnosing adrenal lesions including CT and MRI.
2. Describe the technical aspects of HRCT of the lung. Describe the CT imaging features of collagen vascular diseases in lung.

**SHORT ESSAYS**

3. Write short note on MDCT protocol of evaluation of liver.
4. Ultrasound and Doppler sonography in portal hypertension
5. Barium findings in coeliac disease
6. Write short note on Ventilation-perfusion studies by Radionuclide scanning.
7. Different shadows in radiographs of ICU patients
8. CT severity index of acute pancreatitis

**M.D. - MAY 2015, PAPER – III, {Revised Scheme),**

**LONG ESSAYS**

1. Discuss the appearances of malignant breast lesion with the help of different imaging modalities.
2. What are the causes of deep vein thrombosis? Discuss merits and demerits of various imaging modalities used in evaluation of DVT.

**SHORT ESSAYS**

3. Bronchial artery embolization
4. Retroperitoneal fibrosis
5. Imaging in aortic dissection
6. Xanthogranulomatous pyelonephritis
7. Doppler findings in mid Superficial Femoral Artery (SFA) occlusion with reformation of distal SFA
8. Left atrial myxoma

**M.D. - MAY 2015, PAPER – IV, {Revised Scheme),**

**LONG ESSAYS**

1. Classify and enumerate different supratentorial tumours in adults. Describe in detail the imaging features of Glial tumours.

2. Enumerate the causes of non-traumatic intra axial hemorrhage. Describe in detail their CT & MRI imaging features.

#### SHORT ESSAYS

3. ADEM
4. Neurocysticercosis
5. Cholesteatoma
6. CNS sarcoidosis
7. Herpes simplex encephalitis
8. Sinonasal anatomic variants

#### **M.D. - Oct/Nov 2014, PAPER - I, (Revised Scheme),**

##### LONG ESSAYS

1. Classify bone tumors. Discuss the radiological diagnosis of primary malignant bone tumors.
2. Enumerate the factors affecting the radiographic quality. How will you improve the radiographic quality?

##### SHORT ESSAYS

3. Image Intensifier
4. Imaging anatomy of the orbit
5. Tissue Harmonic Imaging
6. Aneurysmal bone cyst
7. Renal osteodystrophy
8. Piezo electric effect

#### **M.D. - Oct/Nov 2014, PAPER - II, (Revised Scheme),**

##### LONG ESSAY

1. Mention the causes of pulmonary embolism and discuss the role of Imaging in pulmonary embolism
2. Spinal tumours and their diagnosis

##### SHORT ESSAY

3. Neurocysticercosis
4. Ultrasound In renal trauma
5. CT virtual colonography
6. Plain radiography in acute abdomen
7. Imaging in Dysphagia
8. Imaging in Injury to shoulder joint

#### **M.D. - Oct/Nov 2014, PAPER - III, (Revised Scheme),**

##### LONG ESSAYS

1. How will you investigate a case of painless hematuria. What is the role of the radiologist in the management
2. What is pulmonary hypertension? Describe the etiology and plain radiographic features of same.

##### SHORT ESSAYS

3. Role of sonography in renal transplant
4. Renal vein thrombosis etiology and radiological features
5. Renal angioplasty

6. Fallot's tetralogy
7. Doppler evaluation of peripheral arteriovenous fistula
8. Angiography findings in Takayasu's arteritis

**M.D. - Oct/Nov 2014, PAPER - IV, (Revised Scheme),**

**LONG ESSAY**

1. Classification of intracranial tumours, role of MRI & MRS in glioma, brain abscess & radiation Necrosis
2. Describe basal skull tumours, Imaging features of any two conditions

**SHORT ESSAY**

3. Basal ganglia calcification
4. Dentigerous cyst
5. Vitreous hemorrhage
6. Raised intracranial pressure
7. Lissencephaly
8. Cystic hygroma

**D.M.R.D. - Oct/Nov 2014, PAPER-I, (Revised Scheme)**

**LONG ESSAYS**

1. Classify bone tumours. Discuss the radiological approach in diagnosing bone tumours. Discuss in detail various types of osteosarcomas.
2. Describe in detail the structure and principle of Image Intensifier.

**SHORT ESSAYS**

4. Line Focus Principle
5. Imaging manifestations of AIDS in the chest
6. Pulmonary sarcoidosis
7. Process of X-ray Generation
8. MRI artefacts
9. Hyperparathyroidism.

**D.M.R.D. - Oct/Nov 2014, PAPER-II, (Revised Scheme)**

**LONG ESSAYS**

1. Discuss the role of imaging in hepatic tumours in adults.
2. Plain radiography in evaluation of acute abdomen

**SHORT ESSAYS**

3. Write short note on diverticular disease of colon.
4. Briefly describe role of imaging in retroperitoneal fibrosis.
5. Write short notes on Ebstein's anomaly.
6. Write short note on total anomalous pulmonary venous drainage.
7. Imaging in cystic lesions of the liver
8. Write short note on Fistula-in-ano.

**D.M.R.D. - Oct/Nov 2014, PAPER-III, (Revised Scheme)**

**LONG ESSAYS**

1. Enumerate the complications of renal transplant surgery. Describe the imaging approach in diagnosing them.
2. Discuss the differential diagnosis of unilateral proptosis and briefly describe the radiological features.

#### SHORT ESSAYS

3. Normal pressure hydrocephalus
4. Imaging features of venous infarct
5. Bare-orbit
6. Polycystic ovaries
7. Sonography findings in ovarian carcinoma
8. Renal angiomyolipoma

#### **M.D. - MAY 2014, PAPER – II, {Revised Scheme},**

##### LONG ESSAYS

1. Classify mediastinal masses and discuss the imaging findings of anterior mediastinal masses.
2. Discuss the role of imaging in hepatic tumours in adults.

#### SHORT ESSAYS

3. Imaging findings of inflammatory/ fatty masses in abdomen
4. Imaging of focal lesions of spleen
5. Imaging of Meckel's diverticulum
6. Role of Angiography in lower G.I tract bleeding
7. Imaging in intussusceptions
8. Imaging in cystic adenomatoid malformations

#### **M.D. - MAY 2014, PAPER – III, {Revised Scheme},**

##### LONG ESSAYS

1. Discuss colour duplex ultrasound evaluation of atherosclerotic stenotic lesions of carotid arteries and briefly discuss endovascular treatment in carotid stenosis.
2. Discuss the imaging findings in adrenal adenoma and adrenal carcinoma.

#### SHORT ESSAYS

3. Aortoarteritis
4. Ebstein's anomaly
5. Percutaneous nephrostomy
6. Medullary sponge kidney
7. Placenta previa

#### **M.D. - MAY 2014, PAPER – IV, {Revised Scheme},**

##### LONG ESSAYS

1. Describe the imaging anatomy of craniovertebral junction. Discuss the role of imaging in craniovertebral junction pathologies.
2. Discuss the imaging anatomy of the Sinonasal region. Describe the role of imaging in planning endoscopic sinus surgery.

#### SHORT ESSAYS

3. Multiple sclerosis



4. Venous Infarct
5. Juvenile angiofibroma
6. Gliomatosis Cerebri
7. Cholesteatoma
8. CNS Lymphoma

**D.M.R.D – MAY 2014, PAPER – I (Revised Scheme)**

LONG ESSAY

1. Describe the radiological and Imaging features of Osteosarcoma.
2. Describe the principles of H.R.C.T. of Chest. Describe the clinical applications and H.R.C.T. chest findings in Interstitial Lung diseases.

SHORT ESSAY

3. Intensifying screen.
4. X Ray Cassette.
5. Mesothelioma.
6. Multiple Myeloma.
7. Bronchogenic Cyst.
8. Fibrous Dysplasia.

**D.M.R.D – MAY 2014, PAPER –II (Revised Scheme)**

LONG ESSAY

1. Mention the segmental anatomy of liver. Discuss imaging In focal liver lesions.
2. Discuss imaging in pericardia! diseases.

SHORT ESSAY

3. CT severity index.
4. Gerbode's defect.
5. Pseudoaneurysm.
6. Internal fistula.
7. Adrenal venography.
8. Oesophageal varices

**D.M.R.D – MAY 2014, PAPER –III (Revised Scheme)**

LONG ESSAY

1. Describe the MRI features of traumatic lesion of meniscus and ligaments of knee Joint. Enumerate Neuroectodermal dysplasias.
2. Describe Imaging findings in any two of them.

SHORT ESSAY

3. Doppler in Renal Artery Stenosis.
4. Nephrocalcinosis.
5. Testicular Torsion.
6. Placenta Previa.
7. Malignant Ovarian Tumours.
8. Meningioma.

**D.M.R.D – MAY 2014, PAPER –IV (Revised Scheme)**

## LONG ESSAYS

1. What is maximum permissible dose? Describe the methods of radiation protection to the patient and staff in diagnostic radiology.
2. Discuss the radiological anatomy of bronchopulmonary segments.

## SHORT ESSAYS

3. Autotransformer
4. Chondrosarcoma
5. Basic principles of spin echo sequences.
6. MRI in intervertebral disc prolapse
7. Cystic adenomatoid malformations
8. Compton Effect

## **D.M.R.D – MAY 2014, PAPER – I (old Scheme)**

### LONG ESSAY

1. Describe in detail the various components of an X-ray tube with a diagram. What are X-rays? How are they produced? What are the properties and uses of X-rays?
2. Role of imaging in the diagnosis of various types of Bronchogenic Carcinoma

### SHORT ESSAY

3. Axial view of the skull
4. Osteogenic sarcoma
5. Radiological anatomy of shoulder
6. Scattered radiation
7. Doppler ultrasound principle
8. Ankylosing spondylitis

## **D.M.R.D – MAY 2014, PAPER – II (old Scheme)**

### LONG ESSAY

1. Evaluation of Obstructive Jaundice by various imaging methods
2. Imaging methods of Cyanotic Congenital Heart Diseases

### SHORT ESSAY

3. Pheochromocytoma
4. Portal hypertension - Doppler imaging
5. Gas shadows in acute abdomen
6. Pericardial effusion - Imaging
7. Oesophageal diverticulae.
8. Colonic polyposis syndromes

## **D.M.R.D – MAY 2014, PAPER – III (old Scheme)**

### LONG ESSAY

1. Describe the radiological anatomy of Pituitary Fossa and the imaging features of various pituitary lesions.
2. Classify the renal tumours. Discuss the various imaging methods in evaluation of renal cell carcinoma.

### SHORT ESSAY

3. Acoustic neuroma
4. Ophthalmic ultrasound
5. BI-RADS
6. Torsion of testis
7. Placental imaging - ultrasound
8. Mullerian duct anomalies

**M.D.- May 2013, (Revised Scheme), PAPER - I**

**LONG ESSAY**

1. Discuss the imaging features of skeletal tuberculosis.
2. Discuss the physical principles involved in 2D Doppler, colour Doppler and Ultrasound contrast agents in vascular imaging

**SHORT ESSAY**

3. Radiological features of Hypothyroidism
4. Myositis ossificans
5. Salter Harris fractures
6. Slipped capital femoral epiphysis
7. Principles of PET
8. MRI artefacts

**M.D. - May 2013, PAPER - II (Revised Scheme)**

**LONG ESSAY**

1. Role of imaging in bronchogenic carcinoma
2. Discuss imaging in blunt abdominal trauma

**SHORT ESSAY**

3. Acromegaly
4. I U G R (intrauterine growth retardation)
5. Pheochromocytoma
6. Mitral stenosis
7. Deep vein thrombosis
8. Renal tuberculosis

**M.D. - May 2013, PAPER - III, (Revised Scheme)**

**LONG ESSAY**

1. Imaging of testicular and extra testicular tumors of scrotum with role of Doppler in testicular tumors
2. A person working in mining industry has developed cough and wheeze. Discuss the differential diagnosis and HRCT findings of the same

**SHORT ESSAY**

3. Torsion Vs Epididymitis
4. Interventional radiology in renal artery stenosis
5. Interventional radiology of intracranial aneurysms
6. Left atrial myxoma and its differential diagnosis
7. Differential diagnosis of double bubble in fetus
8. Imaging in TAO

**M.D. - May 2013, PAPER - IV (Revised Scheme)**

**LONG ESSAY**

1. The role of MRI in intracranial gliomas
2. Discuss briefly about renal tumours and imaging findings

**SHORT ESSAY**

3. CT coronary angiography
4. Multiple sclerosis
5. Role of PET - CT in metastases
6. Retinoblastoma - role of imaging
7. HRCT of petrous bone
8. Ultrasound of anal sphincter

**D.M.R.D. - May 2013, PAPER - I (Revised Scheme)**

**LONG ESSAY**

1. Discuss Vitamin D metabolism and describe the radiological features of rickets and osteomalacia.
2. Describe in detail the different Magnets and Coils in MRI. Discuss the hazards related to the MRI hardware and safety procedure to be followed to prevent accidents.

**SHORT ESSAY**

3. X-ray beam filters.
4. Radiological features in Rheumatoid arthritis.
5. Solitary pulmonary nodule.
6. Discuss the radiological features of pulmonary tuberculosis,
7. Computed Radiography (CR) artifacts.
8. Principles of Colour Doppler Imaging.

**D.M.R.D. - May 2013, PAPER - II (Revised Scheme)**

**LONG ESSAYS**

1. Describe embryology of gut rotation and fixation. Discuss the differential diagnosis of a neonate with bilious vomiting.
2. How as a Radiologist do you approach a suspected case of congenital heart disease? Discuss in detail various cyanotic congenital heart diseases.

**SHORT ESSAYS**

3. Barium enema technique and findings in malignant colonic lesions
4. Write short notes on pharmaco-radiology in the Gastrointestinal tract.
5. Ultrasound imaging features of acute pancreatitis.
6. Role of ultrasonography in evaluation of jaundice
7. Imaging in a case of portal hypertension
8. Imaging in splenic trauma

**D.M.R.D. - May 2013, PAPER - III (Revised Scheme)**

**LONG ESSAY**

1. Describe Anatomy of Prostate. Describe role of Imaging of Prostatic lesions.
2. Describe normal mammographic anatomy, Describe Abnormal signs on mammography.

**SHORT ESSAY**

3. Wim's Tumour.
4. Neurocysticercosis.
5. Hydrops fetalis.
6. Astrocytoma.
7. Cerebral Infarcts.
8. Retinoblastoma.

**M.D. - May 2012, PAPER - I (Revised Scheme)**

**LONG ESSAY**

1. Write the differential diagnosis and their imaging findings of a lytic lesion in the proximal end of Humerus in an immature skeleton
2. Describe briefly the IITV system and its application in modern medicine

**SHORT ESSAY**

3. Imaging anatomy of gastro esophageal junction
4. MR anatomy of hippocampus
5. Pathophysiology of COPD
6. Classification of contrasts used in Radiology
7. Radiation dose in pediatrics
8. Radiography of PNS

**M.D. - May- 2012, PAPER - II (Revised Scheme)**

**LONG ESSAY**

1. Discuss the role of imaging and interventional radiology in patients with hematuria.
2. Discuss the pathogenesis and imaging findings in Gastrointestinal tuberculosis.

**SHORT ESSAY**

3. Pulmonary manifestations in AIDS
4. MRCP
5. Sonosalpingography
6. Imaging in Proptosis
7. Standard Echocardiographic views
8. Anomaly scan in first trimester.

**M.D. - May 2012, PAPER - III (Revised Scheme)**

**LONG ESSAY**

1. A 45 year old male comes hematemesia, Discuss the role of imaging and interventional procedures
2. Write in brief the classification of bone tumour & imaging in malignant bone tumours

**SHORT ESSAY**

3. Neurotuberculosis
4. Vesico-ureteric reflux
5. MRI of wrist
6. Imperforate anus
7. Bronchogenic cyst
8. Ultrasonography of thyroid

**M.D. - May 2012, PAPER - IV (Revised Scheme)**

## LONG ESSAY

1. CVJN anomalies, role of CT and MRI in evaluation
2. Neck masses, role of CT & MRI in evaluation of cystic hygroma and thyroid carcinoma

## SHORT ESSAY

3. Normal intracranial calcification
4. Retinal detachment
5. Soft tissue injury role of MRI
6. Congenital Anomalies of middle ear
7. Craniostenosis
8. Chordoma

## **M.D.- Nov 2012, PAPER - I (Revised Scheme)**

### LONG ESSAYS

1. Describe in detail the different Magnets and Coils in MRI. Discuss the hazards related to the MRI hardware and safety procedure to be followed to prevent accidents.
2. Discuss the cross-sectional anatomy of neck spaces

### SHORT ESSAYS

3. Spinal tuberculosis
4. Causes and differential diagnosis of absorption of tips of terminal phalanges
5. Osteoid osteoma
6. Diffuse sclerosing bone dysplasias
7. Radiation Protection
8. Principles of Multidetector CT scan (MDCT)

## **M.D.- Nov 2012, PAPER- II (Revised Scheme)**

### LONG ESSAYS

1. Discuss the role of an interventional radiologist in hepatic and biliary disease.
2. Briefly mention the causes or respiratory distress in newborn. Discuss their Imaging findings in detail.

### SHORT ESSAYS

3. Write short note on Mediastinal lines & stripes.
4. Briefly write about CT imaging features GIST.
5. Short note on MRCP
6. CT bronchoscopy and its utility
7. Bronchial artery embolization
8. Short note on Primary sclerosing cholangitis

## **M.D.- Nov 2012, PAPER - III (Revised Scheme)**

### LONG ESSAYS

1. Enumerate the common causes of pulmonary embolism. Discuss the role of plain X-ray, isotope scan, C.T. & angiogram in evaluating the pulmonary embolism.
2. Classify cystic diseases of the kidney. Describe the imaging features in polycystic kidney.

### SHORT ESSAYS

3. Pyeloureteritis cystica.

4. Ultrasound features of acute painful testis.
5. Imaging of intrauterine fetal death
6. Ultrasound and CT features of Ovarian dermoid
7. Sonography in renal transplant
8. Sonological soft markers in trisomy 21 foetus.

**M.D.- Nov 2012, PAPER - IV (Revised Scheme)**

LONG ESSAYS

1. Discuss the imaging of sellar and parasellar masses.
2. Describe in detail imaging in Cranio-cerebral trauma.

SHORT ESSAYS

3. Normal pressure hydrocephalus
4. Schizencephaly
5. Arnold Chiari malformation
6. Fungal sinusitis
7. Acoustic schwannoma
8. Retinoblastoma

**D.M.R.D. - Nov 2012, PAPER - I (Revised Scheme)**

LONG ESSAY

1. What are the different interactions of x rays with matter? Describe in detail two of them with their application in radiography
2. Describe sequence of changes seen in acute and chronic osteomyelitis as seen on plain radiograph. Discuss role of isotopes, ultrasound, CT and MRI in its diagnosis

SHORT ESSAY

3. Transducer
4. Diaphragmatic hernia
5. Enchondroma
6. Bronchogenic cyst
7. Chest radiographic signs of pulmonary edema
8. Radiographic changes in scurvy

**D.M.R.D. - Nov 2012, PAPER - II (Revised Scheme)**

LONG ESSAY

1. Discuss the technique of barium meal examination. Describe radiological and imaging features of benign and malignant gastric pathologies
2. Describe the imaging features of acute pancreatitis and its complication. What is the role of radiologist in treatment of these complications

SHORT ESSAY

3. Imaging features of small bowel lymphoma
4. Discuss briefly role of ultrasound and Doppler in peripheral arterial disease evaluation
5. Image guided coeliac plexus block.
6. Imaging of Congenital hypertrophic pyloric stenosis.
7. Imaging findings in coarctation of aorta.
8. Imaging features of liver metastasis.

**D.M.R.D. - Nov 2012, PAPER - III (Revised Scheme)**

**LONG ESSAY**

1. Explain the role of Radiology and Radio isotopes in the diagnosis of renal hypertension
2. What is phakomatoses? Which are the different conditions in this group? Explain the imaging features in Neurofibromatosis type II

**SHORT ESSAY**

3. Sinonasal polyposis
4. Nephrocalcinosis
5. Nuchal translucency
6. Medulloblastoma
7. Renal ectopia
8. Endometriosis

**D.M.R.D. - Nov 2012, PAPER - I (Old Scheme)**

**LONG ESSAY**

1. What is maximum permissible dose? Describe the methods of radiation protection to the patients and to the staff in the diagnostic radiology department
2. Describe indications and contraindications of intravenous urogram. Discuss the contrast media used for the same

**SHORT ESSAY**

3. Hysterosalpingography
4. Prune belly syndrome
5. Intrauterine fetal death
6. Papillary necrosis
7. Neuroblastoma
8. Endometriosis

**D.M.R.D. - Nov 2012, PAPER - II (Old Scheme)**

**LONG ESSAY**

1. What are the causes of intestinal obstruction? Discuss the radiological and imaging differential diagnosis of intestinal obstruction.
2. What are the causes of pulmonary thrombo-embolism? How do you investigate a case of pulmonary thromboembolism?

**SHORT ESSAY**

3. Radionuclide thyroid scan
4. Portal venous hypertension
5. Anorectal anomalies
6. Leather bottle stomach
7. Solitary pulmonary nodule
8. Acute pancreatitis

**D.M.R.D. - Nov 2012, PAPER - III (Old Scheme)**

**LONG ESSAY**



1. Describe the Anatomy of the pituitary Gland and briefly discuss the differential diagnosis of pituitary masses.
2. Briefly discuss the differential diagnosis and imaging appearances of various soft tissue tumors.

#### SHORT ESSAY

3. Sclerotic lesions of bone
4. Acoustic neuroma
5. Skeletal metastases
6. Hydrocephalus
7. Hyperparathyroidism
8. Orbital masses

#### **D.M.R.D. - May 2012, PAPER - I (Revised Scheme)**

##### LONG ESSAY

1. Discuss the imaging appearances in a case of spinal tuberculosis.
2. Describe the Modern X-ray tube with help of a diagram. How are X-rays produced from an X-ray tube

##### SHORT ESSAY

3. Lymphangitis carcinomatosa
4. Scimitar syndrome
5. Artifacts in Computed Radiography(CR)system
6. Gradient echo imaging
7. Ankylosing spondylitis
8. Renal rickets

#### **D.M.R.D. - May 2012, PAPER - II (Revised Scheme)**

##### LONG ESSAY

1. Discuss the role of Imaging in a case of blunt abdominal trauma.
2. Discuss the role of a radiologist in a 40 yr old male patient presenting to the Emergency Medicine Department with acute abdominal pain in the right hypochondrium & epigastrium.

##### SHORT ESSAY

3. Normal and abnormal extrinsic impressions on esophagogram.
4. Discuss briefly anomalies of aortic arch and its major branches.
5. Ultrasound in evaluation of bowel diseases
6. Classification and imaging in aortic dissection
7. Imaging in focal nodular hyperplasia of liver.
8. Radiography in cardiomegaly and individual chamber enlargement.

#### **D.M.R.D. - May 2012, PAPER - III (Revised Scheme)**

##### LONG ESSAY

1. Describe in detail the Imaging features of Wilms tumour and its staging
2. Imaging features of meningioma and hemangioblastoma

##### SHORT ESSAY

3. Prune belly syndrome
4. Dentigerous cyst

5. Corpus callosal agenesis
6. Spinal stenosis
7. Acute pyelonephritis
8. Endometriosis

**D.M.R.D. - Nov 2011, PAPER - I (Revised Scheme)**

**LONG ESSAY**

1. What are the causes of acute respiratory distress in new born? Discuss plain radiography findings in them
2. What are the imaging findings in multiple myeloma? How can we distinguish myelomatosis from metastases

**SHORT ESSAY**

3. Diffuse idiopathic skeletal hyperostosis
4. MR spectroscopy
5. Radiological features of pleural effusion
6. Ultrasound contrast agents
7. Allergic bronchopulmonary aspergillosis
8. Plain radiography findings in Hurlers syndrome

**D.M.R.D. - Nov 2011, PAPER - II (Revised Scheme)**

**LONG ESSAY**

1. What are the causes of aortic aneurysm? Discuss the role of Xray, CT, Ultrasound, MRI and angiography in evaluating aortic aneurysms
2. Radiological features of gastric and duodenal ulcer

**SHORT ESSAY**

3. Constrictive pericarditis
4. Ebstein's anomaly
5. Epiploic appendagitis
6. Role of isotopes in myocardial ischemia
7. Benign cystic lesions of liver
8. Annular pancreas

**D.M.R.D. - Nov 2011, PAPER - III (Revised Scheme)**

**LONG ESSAY**

1. Classify brain tumours. Describe C S F pathway and draw a diagram.
2. Enumerate different imaging technique for detection of breast tumours, write about mammography

**SHORT ESSAY**

3. Tuberculosis of urinary tract
4. Role of ultrasound in infant brain
5. Phakomatosis
6. IUD (Intra Uterine Foetal Death)
7. P N S water's view
8. Dental panoramic view

**D.M.R.D. - Nov 2011, PAPER - I (Old Scheme)**

## LONG ESSAY

1. Enumerate the principles on which a CT scan machine works. What is Multidetector CT.
2. How do you evaluate a case of Male infertility? Explain in detail the various imaging modalities used

## SHORT ESSAY

3. Placenta previa
4. Pelviureteric junction obstruction
5. Segmental anatomy of liver
6. Targeted imaging for fetal anomalies
7. Classification of renal mass
8. Digital Radiography

## **D.M.R.D. - Nov 2011, PAPER - II (Old Scheme)**

### LONG ESSAY

1. Radiological evaluation of obstructive jaundice
2. Describe Mediastinal Anatomy and the disease processes in each area

### SHORT ESSAY

3. Radiological evaluation and treatment of Hemoptysis
4. Multiple endocrine Neoplasia syndromes. Brief comment on Radiological evaluation
5. Radiological evaluation of Mesenteric Ischemia
6. Choledochal cysts - types and Radiological appearances
7. Classification of Pancreatitis in relation to prognosis
8. CT Enteroclysis

## **D.M.R.D. - Nov 2011, PAPER - III (Old Scheme)**

### LONG ESSAY

1. Discuss the radiological features of pulmonary tuberculosis
2. Discuss the role of radiology in pancreatic tumors

### SHORT ESSAY

3. Hiatus hernia
4. Sialography
5. Budd Chiari syndrome
6. Subphrenic abscess
7. Role of C T in splenic trauma
8. Left atrial myxoma

## **M.D. - May 2011, PAPER - I (Revised Scheme)**

### LONG ESSAY

1. Production of X Rays and its properties
2. Classification of bone tumours. Imaging features of chondrosarcoma and bony metastases

### SHORT ESSAY

3. Gallium imaging
4. Cathode
5. TB joint
6. Color Doppler

7. Madelung deformity
8. Film artifacts

**M.D. - May 2011, PAPER - II (Revised Scheme)**

LONG ESSAY

1. Causes of GI bleed and various modalities in evaluation to confirm the diagnosis
2. Common causes of acute abdomen young female, imaging features of twisted ovarian mass and pelvic kidney

SHORT ESSAY

3. Silhouettes sign
4. Calcification on chest skiagram
5. Malrotation of bowel
6. Hypotonic duodenography
7. Venous sampling
8. HRCT of lung

**M.D. - May 2011, PAPER - III (Revised Scheme)**

LONG ESSAY

1. Describe the development anomalies of aorta & imaging features of Dissecting aneurysm of aorta
2. Calcification in KUB skiagram and various modalities of used in evaluation

SHORT ESSAY

3. Pentalogy of Fallot
4. Seldinger's technique
5. Renal vein thrombosis
6. Nuchal translucency
7. Testicular trauma
8. Tissue harmonic imaging

**M.D. - May 2011, PAPER - IV (Revised Scheme)**

LONG ESSAY

1. Anatomy of base of Skull and discuss role of imaging in tumors involving base of skull
2. Anatomy of cavernous sinus and imaging in carotid-cavernous fistula

SHORT ESSAY

3. Heterotopias
4. Thyroglossal cyst
5. Lytic lesions in mandible and its differential diagnosis
6. Adenoma of pituitary
7. CNS lymphoma
8. Role of imaging in lesions in parapharyngeal space

**D.M.R.D. - May 2011, PAPER - I (Revised Scheme)**

LONG ESSAY

1. Describe the factors affecting the Radiographic Image quality with respect to conventional radiography.

2. Describe Anatomy of Broncho-pulmonary segments. Describe Radiological Features of Broncho pulmonary sequestration.

#### SHORT ESSAY

3. Radiography of Scaphoid.
4. Osteoclastoma.
5. Thalassemia.
6. Potts spine.
7. Adult Respiratory distress syndrome.
8. Biological Radiation Hazards.

#### **D.M.R.D. - May 2011, PAPER - II (Revised Scheme)**

##### LONG ESSAY

1. Describe the radiological and imaging features of gastric carcinoma
2. Describe role of imaging in obstructive jaundice. Describe the interventional procedures used in obstructive jaundice

##### SHORT ESSAY

3. Ulcerative colitis
4. Pneumoperitoneum
5. Acute appendicitis
6. Cushing's syndrome
7. Ventricular septal defect
8. Therapeutic embolisation

#### **D.M.R.D. - May 2011, PAPER - III (Revised Scheme)**

##### LONG ESSAY

1. What are the causes of proptosis? How do you investigate a case of proptosis?
2. Discuss modern imaging in post fossa lesions of skull.

##### SHORT ESSAY

3. Stafne cyst.
4. Torus palatinus.
5. Bosniak's classification of renal diseases.
6. Placenta accreta.
7. Wilm's tumor.
8. Fossa of Rosenmuller.

#### **M.D. - October 2010, PAPER – I (Revised Scheme)**

##### LONG ESSAY

1. Explain principle of CT, write in detail about generations of CT and note on latest advances in CT
2. Discuss the Radiological features of osteogenic sarcoma

##### SHORT ESSAY

3. Draw a neat diagram of X Ray tube
4. Draw a diagram of ultrasound transducer, mention the different types of probes
5. Skyline view
6. Osgood Schlatter's disease

7. Anatomy of knee joint
8. Scintigraphy of thyroid disorders

**M.D. - October 2010, PAPER – II (Revised Scheme)**

LONG ESSAY

1. Mention the differential diagnosis of focal liver lesion with a note on imaging of hepatocellular carcinoma
2. Radiographic features of congenital Heart disease

SHORT ESSAY

3. Virtual colonoscopy
4. Atypical pleural effusions
5. Differential diagnosis of SPN (Salutary Pulmonary Nodule)
6. Posterior urethral valves
7. Bosniak's classifications of renal cysts
8. I U G R

**M.D. – October 2010, PAPER – III (Revised Scheme)**

LONG ESSAY

1. Discuss the radiological features of neurofibromatosis.
2. Discuss the role of MRI in bone marrow diseases.

SHORT ESSAY

3. Juvenile Rheumatoid Arthritis
4. Ultrasound in shoulder pathology
5. CT Enteroclysis
6. Emphysematous pyelonephritis
7. Fungal infections in brain.
8. Imaging in torsion testis.

**M.D. – October 2010, PAPER – IV (Revised Scheme)**

LONG ESSAY

1. Discuss various congenital lesions of brain and role of imaging in these conditions.
2. Discuss the role of radioisotopes in renal imaging

SHORT ESSAY

3. Doppler in renal hypertension
4. Sterilization techniques used to sterilise instruments / devices in the department of
5. MDCT in cardiac imaging
6. MR mammography
7. ILD and HRCT.
8. Gastro intestinal stromal tumour (GIST)

**D.M.R.D. - October 2010, PAPER - I (Revised Scheme)**

LONG ESSAY

1. Describe development of Diaphragm and discuss imaging of various pathologies of Diaphragm.
2. What is ALARA principle? Discuss various biological hazards of radiation.

### SHORT ESSAY

3. Piezo-electricity.
4. Skyline view.
5. Codman's tumor.
6. Geiger muller counter.
7. Pulmonary lobule.
8. Film Artefacts.

### **D.M.R.D. - October 2010, PAPER - II (Revised Scheme)**

#### LONG ESSAY

1. Describe anatomy of lower limb veins. Describe colour Doppler ultrasound findings in deep vein thrombosis
2. Describe imaging findings in dissecting aneurysm of aorta

#### SHORT ESSAY

3. CT findings in renal injury
4. Acute pancreatitis
5. Neuroblastoma
6. Mitral stenosis
7. Percutaneous transluminal angioplasty
8. Carcinoma colon

### **D.M.R.D. - October 2010, PAPER - III (Revised Scheme)**

#### LONG ESSAY

1. Describe the role of Radiology and Imaging in the diagnosis of a case of Renal Lump in Adult.
2. Enumerate the paediatric brain tumours. Describe radiological and Imaging Features of Craniopharyngioma.

#### SHORT ESSAY

3. Testicular Cancer.
4. Ectopic pregnancy.
5. Leiomyoma.
6. Mucocele.
7. Orbital Pseudotumor.
8. MRI in soft Tissue Tumors.

### **D.M.R.D. - May 2010, PAPER - I (Old Scheme)**

#### LONG ESSAY

1. First Trimester obstetric ultrasonography
2. Tuberculosis of the Genitourinary system

#### SHORT ESSAY

3. Radiological anatomy of the Petrous Temporal bone
4. Ectopic pregnancy imaging
5. Medullary sponge kidney
6. Anatomy of external carotid artery
7. Gestational Trophoblastic disease imaging features
8. Radiology of Genitourinary calculi

**D.M.R.D. - May 2010, PAPER - II (Old Scheme)**

LONG ESSAY

1. Imaging of the Salivary glands
2. Imaging of inflammatory bowel disease

SHORT ESSAY

3. Evaluation of Fatty Liver
4. Radiological features Cholangiocarcinoma
5. Radiological classification for Acute Pancreatitis
6. Radiological features of Mitral valvular disease
7. Differential diagnosis of lesions in apex of lung
8. Differential diagnosis of anterior mediastinal masses

**D.M.R.D. - May 2010, PAPER - III (Old Scheme)**

LONG ESSAY

1. Imaging of Spinal dysraphism
2. Imaging of internal derangements of the knee joint

SHORT ESSAY

3. Carpal tunnel syndrome - Imaging
4. Differential diagnosis of cystic lesions of neck based on imaging features
5. Paediatric posterior fossa brain neoplasms Imaging characteristics
6. Intervertebral disc pathology imaging features
7. Imaging of muscular injury
8. Neurogenic tumours imaging features

**D.M.R.D. - May 2010, PAPER - I (Revised Scheme)**

LONG ESSAY

1. What is GRID? Discuss factors affecting radiographic film quality.
2. What is Growth plate? Discuss imaging of Growth plate disorders and Salter-Harris classification of fractures.

SHORT ESSAY

3. Tesla.
4. Abscess.
5. Optic strut.
6. T.L.D Badge.
7. Slip-ring technology.
8. Solitary pulmonary nodule.

**D.M.R.D. - May 2010, PAPER -II (Revised Scheme)**

LONG ESSAY

1. Discuss imaging in malrotation of the gut. Add brief note on development of gut.
2. Discuss imaging of adrenal masses.

SHORT ESSAY

3. Fallot's tetralogy.



4. Constrictive pericarditis.
5. Hydatidosis of abdomen.
6. Pneumoperitoneum.
7. Histiocytoma.
8. Focal splenic lesions.

**D.M.R.D. - May 2010, PAPER -III (Revised Scheme)**

LONG ESSAY

1. Discuss etiopathogenesis and imaging in Renal hypertension.
2. Discuss imaging of skull vault lesions.

SHORT ESSAY

3. Testicular microlithiasis.
4. Placental localization.
5. HSG.
6. Fungal sinusitis.
7. Myopic orbit.
8. Calcinosis cutis.

**M.D. - May 2009, PAPER - I (Revised Scheme)**

LONG ESSAY

1. Radiological anatomy of neck nodes and spaces
2. Film processing

SHORT ESSAY

3. Chondrosarcomas - radiological features
4. Contrast media reactions and treatment
5. High frequency x-ray generators
6. Harmonic imaging and ultrasound contrast
7. Generations of CT scanners
8. Functional MRI

**M.D. - May 2009, PAPER - II (Revised Scheme)**

LONG ESSAY

1. Emphysema-radiological classification and diagnosis
2. Intestinal malignancies- radiological evaluation

SHORT ESSAY

3. Congenital pancreatic lesions- radiological diagnosis
4. Pheochromocytoma-radiological evaluation
5. Biliary strictures-radiological diagnosis and intervention
6. Splenic infarcts and abscesses-radiological evaluation
7. Classification of Liver trauma-radiological evaluation
8. Cholesterosis of the gallbladder (adenomyomatosis) -various types and radiological evaluation

**M.D. - May 2009, PAPER - III, (Revised Scheme)**

LONG ESSAY

1. Dissection of aorta-radiological evaluation

2. Congenital renal anomalies-radiological findings

#### SHORT ESSAY

3. MR Angiography
4. Renal artery stenosis evaluation and treatment
5. Venography versus Doppler in evaluation of upper limb venous systems
6. Mediastinal lymphadenopathy classification and radiological evaluation
7. Testicular torsion-radiological findings
8. Fallopian tube-radiological abnormalities

#### **M.D. - May 2009, PAPER - IV (Revised Scheme)**

##### LONG ESSAY

1. Craniovertebral junction - radiological evaluation
2. Gliomas - radiological findings

##### SHORT ESSAY

3. Fungal infections in paranasal sinuses- radiological evaluation
4. Retinal detachment and choroidal lesions-radiological evaluation
5. Temporomandibular Joint Radiological Evaluation
6. Mammography in breast malignancies
7. Meningitis - role of radiology
8. MRI of tongue

#### **D.M.R.D. - May 2009, PAPER - I (Revised Scheme)**

##### LONG ESSAY

1. What are radiation hazards? Describe briefly measures to protect the staff from radiations
2. Describe the radiological features of
  - a) Pulmonary infarction
  - b) Diffuse bilateral reticular nodular lung lesions

##### SHORT ESSAY

3. Bronchopulmonary segments
4. Acromegaly
5. Osteoclastoma
6. Discuss the role of CT-Scan in head trauma
7. Towne's view
8. Bone scintigraphy

#### **D.M.R.D. - May 2009, PAPER - II (Revised Scheme)**

##### LONG ESSAY

1. Discuss the role of imaging in acute abdomen
2. Describe routine conventional angiography technique. Mention the complications associated with the procedure

##### SHORT ESSAY

3. Pheochromocytoma
4. Hepatoblastoma
5. Plain radiograph findings in mitral valvular disease
6. Interventional procedures for Inferior vena cava (IVC)

7. Imaging in portal hypertension
8. Enteroclysis (Small Bowel enema)

**D.M.R.D. - May 2009, PAPER - III (Revised Scheme)**

LONG ESSAY

1. Classify intracranial trauma. Describe the, C T and M R I findings in head injuries
2. Enumerate the causes if pelvic mass. Discuss the role of imaging in the diagnosis and the management of pelvic mass in female

SHORT ESSAY

3. Craniopharyngioma
4. MRI features of von Hippel landau disease
5. Mammographic features in breast tumours
6. Sonographic appearances in first trimester pregnancy
7. Nephrocalcinosis
8. Nephroblastoma

**M.D. - April 2008, PAPER – I, (Revised Scheme)**

LONG ESSAY

1. Enumerate the factors affecting the radiographic quality. How will you improve the radiographic quality?
2. Discuss the radiological factors of gout and pseudogout

SHORT ESSAY

3. Fluorosis
4. Down's syndrome
5. MR Spectroscopy
6. Cine cardiac CT
7. Power Doppler
8. Bronchial artery embolisation

**M.D. - April 2008, PAPER - II (Revised Scheme)**

LONG ESSAY

1. Discuss the pulmonary complications of AIDS
2. Enumerate the causes of mass in the epigastrium. How will you proceed to radiologically evaluate a case of mass in the epigastrium?

SHORT ESSAY

3. CT Colonoscopy
4. Imaging in hepatocellular carcinoma
5. Imaging in haemangioma of liver
6. Miliary tuberculosis
7. H.R.C.T of lung
8. Congenital cystic adenomatoid malformation of lung

**M.D. - April 2008, PAPER - III (Revised Scheme)**

1. Discuss the pathology and imaging features in testicular tumours
2. Discuss the pathology and imaging features of pulmonary thromboembolism

#### SHORT ESSAY

3. Interventional radiology in subarachnoid haemorrhage
4. Imaging in endometriosis
5. Imaging in endometrial carcinoma
6. Renal Doppler
7. Tetralogy of Fallot
8. Takayasu arteritis

#### **M.D. - April 2008, PAPER - IV (Revised Scheme)**

##### LONG ESSAY

1. What are the applications and advantages of MR spectroscopy in the evaluation of various intracranial lesion?
2. What are the causes of unilateral proptosis? Discuss the role of imaging in the evaluation of unilateral proptosis

#### SHORT ESSAY

3. MR venogram
4. Dacrocystography
5. Lymphangioma of neck
6. Perfusion weighted MR imaging in CNS
7. Subdural haematoma
8. Congenital malformations of inner ear

#### **D.M.R.D. - April 2008, PAPER - I (Revised Scheme)**

##### LONG ESSAY

1. Describe skeletal tuberculosis and imaging features
2. Elaborate the recent advances in ultrasound technology with an emphasis on the principles involved and their applications

#### SHORT ESSAY

3. Describe radiological features of congenital dislocation of hip joint
4. Discuss causes of haemoptysis and describe the appearance of bronchiectasis on HRCT
5. Describe the hazards of radiation in a human being
6. Discuss in brief masses in anterior mediastinum
7. Discuss various radiographic techniques for patella
8. Discuss sclerore bony dysplasia

#### **D.M.R.D. - April 2008, PAPER - II (Revised Scheme)**

##### LONG ESSAY

1. Write an essay on pancreatitis. Mention in detail the imaging features of complications of pancreatitis
2. A 20 years female patient presented with a mass in the right iliac Fossa. Discuss the differential diagnosis

#### SHORT ESSAY

3. Intussusception
4. Colour Doppler sonography in deep vein thrombosis (DVT)

5. Role of plain radiograph in congenital heart disease
6. Trans Jugular intrahepatic Porto systemic shunt (TIPS)
7. Interventional procedures in gastro intestinal bleed
8. Achalasia cardia

**D.M.R.D. - April 2008, PAPER - III (Revised Scheme)**

LONG ESSAY

1. DISCUSS the value of ultrasound, C T end angiogram m the diagnosis of tumours and tumor like lesions of kidney in children
2. What are the causes of Sub Arachnoid Haemorrhage (SAH)? Discuss the radiological approach in a suspected SAH

SHORT ESSAY

3. Twin pregnancy
4. Soft tissue calcification
5. Cranial sonography
6. Endometriosis
7. Digital angiography of the brain
8. Transplant kidney evaluation

**D.M.R.D. - September 2007, PAPER - I (Revised Scheme)**

LONG ESSAY

1. Describe the construction of digital fluoroscopy. What are the advantages of digital fluoroscopy over conventional fluoroscopy
2. Classify the bone tumors. Describe in detail about tumors from cartilage.

SHORT ESSAY

3. Radiation biology
4. Radiological anatomy of craniovertebral junction
5. Bone scan
6. Transducer
7. Interstitial lung disease
8. Hounsefield units (HU)

**D.M.R.D. - September 2007, PAPER - II (Revised Scheme)**

LONG essay

1. Discuss the value of modern imaging modalities in acute abdomen in children.
2. Describe the angiographic features of Aortoarteritis and discuss the role of intervention radiology in the management of Aortoarteritis.

SHORT ESSAY

3. Chron's disease
4. Hepatocellular carcinoma
5. Embolisation in renal cell carcinoma
6. Small bowel lymphoma
7. Hepato-biliary scintigraphy
8. Pheochromocytoma

**D.M.R.D. - September 2007, PAPER - II (Revised Scheme)**

**LONG ESSAY**

1. Discuss the tumors of the kidney. Mention tire merits of each radiological investigation.
2. Describe the normal anatomy of cerebellopontine (CP) angle. Mention the tumors in CP angle and the role of imaging.

**SHORT ESSAY**

3. Ultra sound of testicular tumors
4. Posterior urethral valve
5. Mandibular cyst
6. Role of ultrasound for detection of congenital anomalies in fetus
7. Polycystic ovaries
8. Soft tissue haemangioma

**M.D.- April / May 2007, PAPER - I (Revised Scheme)**

**LONG ESSAYS**

1. Discuss in detail the construction of a grid and explain how it improving the radiography quality.
2. Benign cartilaginous bone tumours.

**SHORT ESSAYS**

3. Achondroplasia
4. Radiation protection in diagnostic radiology
5. Radio nuclides in transplanted kidneys
6. Scattered radiation
7. Digital subtraction angiography
8. Solitary dense vertebra

**M.D. - April / May 2007, PAPER - II (Revised Scheme)**

**LONG ESSAY**

1. Discuss the anatomy of posterior mediastinum and describe radiological and imaging features of lesions involving the posterior mediastinum.
2. Discuss the role of radiology in the diagnosis and management of patient presenting with obstructive jaundice.

**SHORT ESSAYS**

3. Radioisotope imaging of hepatobiliary disease
4. Gastro-esophageal junction with particular reference to hiatal hernia
5. MRCP
6. Role of radiology and imaging in intestinal ischemia
7. Coal worker's pneumoconiosis
8. Cushing's syndrome

**M.D. - April / May 2007, PAPER - III (Revised Scheme)**

**LONG ESSAY**

1. Classify congenital anomalies of the Kidney and explain the radiological and imaging features of Ectopic kidney and Renal agenesis
2. Describe the anatomy of the Thoracic aorta and discuss the radiological and imaging features of Aortic lesions in the chest

## SHORT ESSAYS

3. IUGR
4. Ovarian masses
5. Renal trauma
6. Torsion of the testis
7. Hepatic artery embolization
8. Inferior vena cavogram

## **M.D. - April / May 2007, PAPER - IV (Revised Scheme)**

### LONG ESSAYS

1. Discuss anatomy of CP angle. Describe imaging features of various space-occupying lesions in this region.
2. Classify orbital tumors. Describe radiological features of tumors affecting the globe (eyeball).

## SHORT ESSAYS

3. Cystic lesions in infratentorial region
4. HIV manifestations in CNS
5. Evaluation of tinnitus
6. Glomus tumours
7. PNS masses
8. Soft tissue calcification

## **D.M.R.D. - 2007, PAPER - I (Revised Scheme)**

### LONG ESSAYS

1. Radiological features of renal osteodystrophy
2. Radiological and imaging evaluation of bronchogenic carcinoma

## SHORT ESSAYS

3. Sarcoidosis
4. Virtual bronchoscopy
5. Congenital dislocation of hip
6. Skeletal scintigraphy
7. Radiological anatomy around the knee joint
8. Adverse effects of radiation

## **D.M.R.D. - 2007, PAPER - II (Revised Scheme)**

1. Discuss the differential diagnosis of right iliac fossa mass.
2. Imaging evaluation of Obstructive Jaundice. Briefly discuss the role of Interventional Radiology.

## SHORT ESSAYS

3. Neuroblastoma
4. Enteroclysis
5. MRCP vs. ERCP
6. Contrast induced nephrotoxicity
7. Aortic aneurysm
8. Angiography in bleeding per vaginum

## **D.M.R.D. - 2007, PAPER - III (Revised Scheme)**

### LONG ESSAYS

1. Evaluation of renal masses.
2. Antenatal ultrasound detection of abnormalities of skull and brain.

### SHORT ESSAYS

3. Captopril Scintigraphy in renovascular hypertension
4. Acute Scrotum
5. Imaging of uterine myoma and role of interventional radiology in its management
6. Neurofibromatosis
7. Cystic lesions of the jaw
8. MR urography

## **M.D.- 2006, PAPER I (Revised Scheme)**

### LONG ESSAYS

1. Name the various interactions of x-ray photons with matter. Describe any two.
2. Skeletal and extraskletal manifestations of rheumatoid arthritis.

### SHORT ESSAYS

3. Psoriatic arthritis
4. Marfan's syndrome
5. MRI of knee
6. 3D rendering technique
7. MR angiography - principles and techniques
8. Lung perfusion scan

## **M.D.- 2006, PAPER II, (Revised Scheme)**

### LONG ESSAYS

1. Discuss the pulmonary manifestations in immunocompromised patients.
2. Radiology and imaging of acute pancreatitis.

### SHORT ESSAYS

3. Briefly discuss the differentiating features of intra and extra lobar sequestration of lung
4. USG and color Doppler evaluation of cirrhosis of liver with portal hypertension
5. Biliary interventions
6. Splenic SOL
7. Etiology and radiological features of mechanism small bowel obstruction
8. Pheochromocytoma

## **M.D.- 2006, PAPER III, (Revised Scheme)**

### LONG ESSAYS

1. Enumerate causes of hematuria. Discuss the imaging approach to hematuria
2. What are the common causes of pulmonary thrombo-embolism? Discuss the role of plain radiography, isotope scan and CT angiogram in the evaluation of PTE

### SHORT ESSAYS

3. Transvaginal ultrasound
4. Role of ultrasound and CT in renal transplantation



5. Fallopian tube recanalisation
6. Undescended testis- radiological and imaging evaluation
7. CT and MR in gynaecological malignancies
8. Renal angiomyolipoma

**M.D.- 2006, PAPER IV, (Revised Scheme)**

LONG ESSAYS

1. Describe the anatomy of pituitary gland. Discuss the radiological and imaging features of lesions involving the pituitary gland.
2. Discuss the causes and imaging features in a case of acute paraplegia.

SHORT ESSAYS

3. MR spectroscopy
4. Neurocysticercosis
5. Suprasellar lesions
6. Solitary collapsed vertebra
7. CT and MR features of intracranial hematoma
8. Mandibular lesions - imaging approach

**M.D.- 2006, PAPER - I (Revised Scheme)**

LONG ESSAYS

1. Describe the various interactions of x-ray photons with matter. Describe any two.
2. Skeletal and extraskeletal manifestations of RA (rheumatoid arthritis)

SHORT ESSAYS

3. Psoriatic arthritis
4. Marfan's syndrome
5. MRI of knee
6. 3D rendering techniques
7. MR angiography - principles & techniques
8. lung perfusion scan

**M.D.- 2006, PAPER - II (Revised Scheme)**

LONG ESSAY

1. Discuss the anatomy of posterior mediastinum and describe radiological and imaging features of lesions involving the posterior mediastinum.
2. Discuss the role of radiology in the diagnosis and management of patient presenting with obstructive jaundice.

SHORT ESSAYS

3. Radioisotope imaging of hepatobiliary disease
4. Gastro-oesophageal junction with particular reference to hiatal hernia
5. MRCP
6. Role of radiology and imaging in intestinal ischemia
7. Coal worker's pneumoconiosis
8. Cushing's syndrome

**M.D.- 2006, PAPER - III (Revised Scheme)**

## LONG ESSAYS

1. Classify congenital heart disease. Discuss the radiological features in conditions with left right shunt
2. Hemoptysis - etiology, radiological features and role of interventional in its management

## SHORT ESSAYS

3. Tracheo-oesophageal developmental anomalies
4. Role of Doppler in male infertility
5. Etiology and imaging evaluation of deep vein thrombosis
6. Transrectal ultrasound prostate
7. Benign tumors of kidney
8. Digital subtraction angiography

## **M.D.- 2006, PAPER - IV (Revised Scheme)**

### LONG ESSAYS

1. Discuss anatomy of CP angle. Describe imaging features of various space-occupying lesions in this region.
2. Classify orbital tumors. Describe radiological features of tumors /including the globe (eyeball).

### SHORT ESSAYS

3. Cystic lesions in infratentorial region
4. HIV Manifestations in CNS
5. Evaluation of tinnitus
6. Glomus tumours
7. PNS masses
8. Soft tissue calcification

## **M.D., September-2005, Paper-I (Revised Scheme)**

### LONG ESSAYS

1. Describe the radiological anatomy of knee joint and discuss magnetic resonance, imaging in pathological conditions of knee joint.
2. Draw the basic structure of a transducer. Enumerate the merits and demerits of various transducers. Discuss the principle of color doppler flow imaging

### SHORT ESSAYS

3. Cine radiography.
4. Perthes disease.
5. Periosteal reactions in children
6. M. R. bone marrow imaging
7. Multiple myeloma
8. Uraemic osteodystrophy

## **M.D. - September-2005, Paper II, (Revised Scheme)**

### LONG ESSAYS

1. Discuss the role of plain x-ray and imaging in a adult male with acute abdomen.
2. Discuss the value of M.R. cholangiography in children and young adults with biliary diseases.

### SHORT ESSAYS

3. SARS (severe acute respiratory syndrome)

4. Wandering spleen
5. Broncho-alveolar carcinoma
6. Virtual colonoscope
7. Ventilation perfusion radionuclide lung scan.
8. Double contrast study of upper G.I. tract.

**M.D. - September-2005, Paper III, (Revised Scheme)**

LONG ESSAYS

1. How will you evaluate a patient suspected for reno vascular hypertension and discuss the role of interventional radiology in the management.
2. Describe about the various embolization materials used in the interventional procedures, their indications and contraindications.

SHORT ESSAYS

3. Contrast peripheral venography versus colour Doppler sonography.
4. Radionuclide imaging in prostatic cancer.
5. Antenatal ultrasound diagnosis of potter's syndrome.
6. Myocardial perfusion scanning.
7. Vascular rings
8. Lymphangiography in testicular tumours.

**M.D. - September-2005 RADIODIAGNOSIS, Paper IV, (Revised Scheme)**

LONG ESSAY

1. Describe the role of imaging of posterior cranial fossa lesions in children.
2. Describe in detail about the radiological and imaging characteristics of neurocutaneous syndromes

SHORT ESSAY

3. Spinal angiography
4. Scinti-mammography
5. Syringomyelia
6. Acoustic neuroma
7. Orbital meningioma
8. Radiological and C.T. manifestations of gorler's syndrome.

**D.M.R.D - September-2005, Paper I, (Revised Scheme)**

LONG ESSAYS

1. What are scattered radiations? Describe the measures to prevent
2. What are the various compartments of mediastinum? Describe radiological features of common lesions occupying in different compartments, briefly,

SHORT ESSAYS

3. Perthe's disease.
4. Doppler effect.
5. Role of ultrasound in infant hip,
6. Water soluble contrast media.
7. Pulmonary sarcoidosis.
8. Intensifying screens.

### **D.M.R.D - September-2005, Paper II, (Revised Scheme)**

#### **LONG ESSAYS**

1. How would you proceed radiologically to evaluate a patient presenting with jaundice with the various modalities available?
2. Describe the technique of femoral angiography? What are the complications one foresees before, during and after the angiography?

#### **SHORT ESSAYS**

3. Atresia of oesophagus.
4. Aneurysms of thoracic aorta
5. Lymphangiography.
6. Mitral stenosis.
7. Cushing's syndrome.
8. Sonographic appearance of cystic lesions in liver,

### **D.M.R.D - September-2005, Paper III, (Revised Scheme)**

#### **LONG ESSAYS**

1. How will you Investigate a case of renal hypertension?
2. Describe the imaging techniques available for investigation of a case of subarachnoid haemorrhage.

#### **SHORT ESSAYS**

3. Unilateral proptosis.
4. Role of ultrasound in torsion of testis.
5. Craniostenosis
6. Investigate a pregnant lady in second trimester to evaluate foetal well-being.
7. Renal papillary necrosis.
8. Role of doppler in ovarian masses.

### **D.M.R.D - 2004, Paper I, (Revised Scheme)**

#### **LONG ESSAYS**

1. Describe the production of X-Rays. Mention the properties of X-Rays.
2. Write an essay on the radiological features of bronchogenic carcinoma. Add a note on the extra pulmonary manifestations of Bronchogenic carcinoma.

#### **SHORT ESSAYS**

3. Multiple myeloma.
4. Radiological anatomy of shoulder.
5. Acute respiratory distress syndrome (ARDS).
6. T1 T2 relaxation times.
7. Multislice computed tomography.
8. Radiation protection methods for pregnant lady in the department.

### **D.M.R.D - 2004, Paper II, (Revised Scheme)**

#### **LONG ESSAYS**

1. Discuss techniques of abdominal aortography. What are the features of abdominal aortic aneurysm ?
2. Describe imaging techniques used for the diagnosis of liver masses.

#### **SHORT ESSAYS**

3. Describe appearances of gastric ulcer on barium meal.
4. Discuss role of ultrasonography in blunt abdominal injury.
5. Describe features of ulcerative colitis on barium enema study.
6. Discuss radiological features of mitral stenosis.
7. Discuss radiological features of congenital causes of obstruction in Gastrointestinal tract.
8. Discuss small bowel enema.

**D.M.R.D - 2004, Paper III, (Revised Scheme)**

**LONG ESSAYS**

1. Discuss the value of scrotal ultrasound.
2. Discuss the various causes of calcification on a plain X-ray skull.

**SHORT ESSAYS**

3. Hypernephroma.
4. Cystic diseases of kidney.
5. Nephrocalcinosis.
6. ESCWL.
7. Percutaneous nephrostomy.
8. Pheochromocytoma.