Rajiv Gandhi University of Health Sciences, Karnataka

M.D. Degree Examination – 07-May-2022

Time: Three Hours **Max. Marks: 100 Marks**

RADIO DIAGNOSIS
PAPER – I (RS-2/RS-3)
Q.P. CODE: 7461

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary

Answer All The Questions **10 X 10 = 100 Marks**

1. Describe anatomy of circle of wills and its variations.
2. Write briefly on radiographic technique of submentovertical view and skyline view.
3. Rotating anode x-ray tube, construction and working principle.
4. Tissue elastrography and its clinical applications.
5. Post processing techniques in MDCT and their utility.
6. Principles of diffusion weighted imaging and its clinical applications.
7. Advantages and disadvantages of CR and DR.
8. Measures to decrease radiation dose to patient.
9. Perthes disease.
10. Role of isotopes in bone imaging.

M.D. Degree Examination – 09-May-2022

[Time: 3 Hours] **[Max. Marks: 100]**

RADIO DIAGNOSIS - PAPER – II
(RS-2/RS-3)
Q.P. CODE: 7462

Your answers should be specific to the questions asked.
Draw neat, labeled diagrams wherever necessary.

Answer All The Questions **10 X 10 = 100 Marks**

1. Plain radiography, USG and CT findings in acute pancreatitis.
2. Role of scintigraphy in gastro intestinal bleed.
3. Role of radiologist in intussusceptions.
4. Imaging of renal transplant patients.
5. Discuss the radiological features of neonatal respiratory distress syndrome.
6. Radiological differentiating features of ileocaecal Koch’s and Crohn’s disease.
7. HRCT findings in idiopathic pulmonary fibrosis.
8. Discuss the radiological evaluation of blunt injury abdomen.
9. Radiological evaluation of suspected pulmonary thrombo embolism and role of interventions.
10. Aspergillosis.

* * * * *

Rajiv Gandhi University of Health Sciences, Karnataka

M.D. Degree Examination – 11-May-2022

[Time: 3 Hours] **[Max. Marks: 100]**

RADIO DIAGNOSIS - PAPER – III
(RS-2/RS-3)
Q.P. CODE: 7463

Your answers should be specific to the questions asked.
Draw neat, labeled diagrams wherever necessary.

Answer All The Questions **10 X 10 = 100 Marks**

1. Amnionicity and chorionicity in twin pregnancy. Enumerate the various complications that may occur in twin pregnancy. Describe the various radiological findings in twin transfusion syndrome.
2. Describe the embryology of mullerian ductal anomalies. Describe the role of HSG, USG and MRI, Highlighting the advantages and limitations.
3. Ultrasound in a 35 years old female patient with right adnexal mass.
   a. What are the causes?
   b. Algorithmic approach and imaging features in those causes.
4. Describe the techniques of MRI arthrography. Enumerate its indications, advantages and limitations.
5. Imaging in non tubercular renal infections.
6. Discus the role of imaging in uremia. Citing the specific role of limitations of conventional radiography, USG, CT, MRI and renal scintigraphy.
7. Neurogenic bladder.
8. a. Doppler assessment of AV fistula of hemodialysis access.
   b. Role of MDCT in cyanotic heart disease.
9. Discuss the pathophysiology of venous incompetence of lower extremity, common location of perforators? Discuss the techniques and imaging features in Doppler of lower extremity.
10. Eisenmenger syndrome? Enumerate the causes. Discuss the radiological features.

M.D. Degree Examination – 13-May-2022

[Time: 3 Hours] **[Max. Marks: 100]**

RADIO DIAGNOSIS - PAPER – IV
(RS-2/RS-3)
Q.P. CODE: 7464

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

Answer All The Questions **10 X 10 = 100 Marks**

1. MRI venography of brain principles and application.
2. Sella turcica anatomy, enumerate sellar and parasellar masses.
3. Diffuse axonal injury.
4. MR imaging features of intra medullary spinal tumors.
5. NCC vs Tuberculoma.
6. Imaging in Proptosis.
7. Juvenile Naso-pharyngeal angiofibroma.
8. HRCT temporal bone in middle ear pathologies.
9. Dentigerous cyst.
10. Arnold Chiari Malformation.

Rajiv Gandhi University of Health Sciences, Karnataka

M.D. Degree Examination – 15-Nov-2022

Time: Three Hours **Max. Marks: 100 Marks**

RADIO DIAGNOSIS
PAPER – I (RS-2/RS-3)
Q.P. CODE: 7461

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary

Answer All The Questions **10 X 10 = 100 Marks**

1. Describe the development and embryology and kidney with imaging of congenital malformation of kidney.
2. Write briefly on radiographic techniques of optic foramen view and Schuller's view.
3. Enlist X-Ray interaction with matter and describe any two in detail.
4. Describe anatomy of lower limb veins. Describe various techniques and color Doppler findings in evaluation of deep venous thrombosis.
5. Discuss imaging appearances of spinal tuberculosis.
6. AERB guidelines with respect to radiology department construction.
7. Discus the differential diagnosis of expansile lesions of long bone.
8. Principles of MR spectroscopy and its clinical applications.
9. Personal dosimetry systems.
10. Digital Mammography.

M.D. Degree Examination – 17-Nov-2022

[Time: 3 Hours] **[Max. Marks: 100]**

RADIO DIAGNOSIS - PAPER – II
(RS-2/RS-3)
Q.P. CODE: 7462

Your answers should be specific to the questions asked.
Draw neat, labeled diagrams wherever necessary.

Answer All The Questions **10 X 10 = 100 Marks**

1. Neuroendocrine tumours of pancreas and its imaging.
2. Imaging in dissecting aneurysm of aorta.
3. Describe the radiological anatomy of the mediastinum. Enumerate the mass lesions in the anterior mediastinum. Briefly mention the role of imaging modalities in their diagnosis.
4. Gossypiboma.
5. MRCP Vs ERCP.
6. Differential diagnosis of cystic lesions in the chest.
7. Prune belly syndrome.
8. Achalasia Cardia.
9. Imaging in female infertility.
10. Coronary CT angiography.

Rajiv Gandhi University of Health Sciences, Karnataka

M.D. Degree Examination – 19-Nov-2022

[Time: 3 Hours] **[Max. Marks: 100]**

RADIO DIAGNOSIS - PAPER – III
(RS-2/RS-3)
Q.P. CODE: 7463

Your answers should be specific to the questions asked.
Draw neat, labeled diagrams wherever necessary.

Answer All The Questions **10 X 10 = 100 Marks**

1. Discuss the role of imaging in diagnosis of Transplant Kidney Dysfunction.
2. Describe the development of heart and discuss the myocardial perfusion study.
3. Write short notes on:
   a. Ballon Angioplasty
   b. Gastroesophageal Reflux
   c. Prune belly syndrome
   d. Vertebral biopsy
4. Radiological features of fore gut duplication cysts.
5. Describe the radiological features of acute pancreatitis and its complications.
6. Discuss role of interventional radiologist in female infertility.
7. Describe the role of Doppler ultrasound in intrauterine growth retardation (IUGR).
8. Imaging features of Crohn's disease.
9. Transrectal ultrasound versus MRI of prostate gland.
10. Write short notes on:
    a. MR Urography
    b. PCPNDT ACT
    c. Nuchal Translucency

M.D. Degree Examination – 21-Nov-2022

[Time: 3 Hours] **[Max. Marks: 100]**

RADIO DIAGNOSIS - PAPER – IV
(RS-2/RS-3)
Q.P. CODE: 7464

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

Answer All The Questions **10 X 10 = 100 Marks**

1. Imaging of petrous temporal bone.
2. Differential diagnosis of multiple osteolytic lesions of the skull and role of the imaging modalities.
3. Differential diagnosis of ring enhancing lesion of the brian and imaging modalities and radiological findings.
4. CT Versus MRI in Brain Tumors.
5. a. Enumerate the various Mucopolysaccharidoses
   b. Radiological findings in morquio syndrome
6. Arnold chiari malformation.
7. Enumerate the cause of enlarged jugulare foramina. Discuss the imaging, findings, role of interventional radiology in the management of Glomus jugulare tumors.
8. Define Spinal dysraphism, role of imaging.
9. Clinical applications of functional imaging of brain.
10. Meningioma.