Rajiv Gandhi University of Health Sciences, Karnataka

M.D. Degree Examination – 02-Jan-2025

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. Draw a labelled diagram of broncho pulmonary segments on chest X-Ray PA view and lateral view.
2. Development of prostate, imaging modalities of prostate including TRUS anatomy of prostate.
3. Describe the principle of radiation protection and its application in Fluoroscopy.
4. Draw neat diagram of modern X-ray tube and Mammography Tube. Label its parts.
5. CR and DR
6. Artifacts in conventional radiography
7. Application of PET.
8. Thermo-luminescent dosimetry badge
9. Barium swallow – techniques and procedure
10. Radiographic evaluation of cranio-vertebral junction anomalies

M.D. Degree Examination – 04-Jan-2025

[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. HRCT lung.
2. Imaging in superior mesenteric artery syndrome.
3. Classification and imaging features of tracheoesophageal fistula.
4. Aortic aneurysm classification and imaging features.
5. USG of acute scrotum.
6. CT and MR Enteroclysis.
7. Ventilation perfusion study of the lung.
8. Imaging features of hirschsprungs disease.
9. Radiology in appendicitis.
10. Vascular compression syndromes.

Rajiv Gandhi University of Health Sciences, Karnataka

M.D. Degree Examination – 06-Jan-2025

[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. Imaging features of renal artery stenosis.
2. Define IUGR. Discuss role of Doppler in IUGR.
3. Enlist the soft markers of aneuploidy. Describe in detail about the technique and measurement of nuchal translucency.
4. Imaging features of renal tuberculosis.
5. Imaging features of gestational trophoblastic disease.
6. Enlist the causes of pulmonary embolism and write in detail about their imaging features.
7. Classification and imaging in aortic dissection.
8. Grading and imaging in vesicoureteral reflux.
9. Imaging features of testicular torsion.
10. **Indications, contraindications and procedure of hysterosalpingography.**

M.D. Degree Examination – 08-Jan-2025

[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. Describe the imaging features in congenital infections of brain in neonates.
2. Principles of MR elastography and its applications
3. **Describe the radiological anatomy of cranio vertebral junction. Describe the role of plain X-Ray in evaluation of C.V junction.**
4. What is Phakomatosis? Enumerate the various conditions considered in this group and describe radiological features of neurofibromatosis.
5. Role of MRI and interventions in spinal vascular malformations
6. How do you evaluate a case of abdominal aortic aneurysm on CT angiography? Write a note on Endovascular Aneurysm Repair and its complications
7. Write a note on Digital Breast Tomosynthesis and stereotactic breast biopsy
8. MRI in evaluation of Brachial plexus.
9. Paraganglioma in head and neck region. Describe in detail glomus tympanicum.
10. Intracranial hypotension.

Rajiv Gandhi University of Health Sciences, Karnataka

M.D. Degree Examination – 26-May-2025

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. Discuss etiopathogenesis, clinical features and imaging appearances in Perthes disease.
2. Benign cartilaginous bone tumors.
3. Thalassemia.
4. Renal scintigraphy
5. Enumerate the factors affecting the radiographic quality. How will you improve the radiographic quality?
6. Classify the contrast media. Write about intra vascular contrast media and its adverse reaction.
7. Ultrasound transducers.
8. CT angiography.
9. Intensifying screens.
10. Peritoneal spaces.

M.D. Degree Examination - 28-May-2025

[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. Mention the causes of upper GI obstruction in neonate. Describe the imaging features of congenital hypertrophic pyloric stenosis.
2. Role of imaging in Cholangiocarcinoma.
3. Write short notes on:
   a. Esophageal atresia and tracheoesophageal fistula
   b. Bronchogenic Cyst
   c. Round Atelectasis
   d. Benign Gastric Tumor.
4. Differential diagnosis of Right lliac Fossa pain in an adult patient and imaging features of ileo-caecal Koch’s.
5. Describe embryology of gut rotation and fixation. Discuss the differential diagnosis of a neonate with bilious vomiting.
6. Discuss the role of HRCT in diffuse lung diseases.
7. Describe the differential for cavitating lung lesions.
8. Imaging of acute pancreatitis.
9. Radiological features of pulmonary manifestations of Tuberculosis.
10. Imaging of lung tumors.

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Rajiv Gandhi University of Health Sciences, Karnataka

M.D. Degree Examination – 30-May-2025

[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. Cardiac tumors.
2. What is pulmonary hypertension? Describe the etiology and plain radiographic features of same.
3. Technique and complications of femoral puncture.
4. Enumerate the complications of renal transplant surgery. Describe the imaging approach in diagnosing them.
5. What are the categories of renal injury? Discuss the radiological investigations and appearances in a case of renal trauma.
6. Discuss the role of ultrasonography in brain anomalies of the foetus on antenatal examination of pregnant lady.
7. Role of MRI in uterine anomalies.
8. MEN syndrome.
9. Sonological evaluation of scrotal extra testicular lesions.
10. Penile Doppler.

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M.D. Degree Examination – 02-Jun-2025

[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. MR Spectroscopy – Techniques and applications
2. Role of PET in Lymphoma.
3. How do you evaluate a case of prostate carcinoma on MRI?
4. PET-CT – Principles and applications
5. CT Sialogram.
6. High Intensity Focused Ultrasound
7. Biliary interventions.
8. Pulmonary manifestations in AIDS.
9. Fetal MRI techniques and interpretation.
10. Preoperative evaluation of Renal transplantation.

Rajiv Gandhi University of Health Sciences, Karnataka

M.D. Degree Examination – 24/Sep/2025

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. Enumerate the seronegative arthropathies and discuss in detail the radiological features of rheumatoid arthritis.
2. Differential diagnosis of expansile lesions in the metaphysis of long bones.
3. Describe calcium metabolism. Discuss the radiological features of hyperparathyroidism.
4. Osteogenesis imperfecta.
5. Hysterosalpingography
6. Write in detail about the anatomy of paranasal sinuses and radiographic positions used to delineate it.
7. Factors affecting scattered radiation and methods to decrease scattered radiation.
8. Describe the principles of Doppler imaging. Add a note on ultrasound contrast materials.
9. Anode heel effect.
10. MR anatomy of shoulder.

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M.D. Degree Examination – 26/Sep/2025

[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. Choledochal cyst.
2. Discuss in detail about etiology and imaging features of ischaemic colitis.
3. Pulmonary **Hamartoma**
4. Mucocele of Appendix.
5. **TIPSS**
6. Fibrosing mediastinitis.
7. Malignant Pleural mesothelioma.
8. Diverticulitis.
9. Role of MRI in pancoast Tumour.
10. Diaphragmatic Tumours.

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Rajiv Gandhi University of Health Sciences, Karnataka

M.D. Degree Examination – 29/Sep/2025

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

RADIO DIAGNOSIS - PAPER – III

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 various MR techniques used in cardiac imaging.
2. Tetralogy of Fallot.
3. Briefly describe the anatomy of the pericardium. List various causes of imaging findings in constrictive pericarditis.
4. Describe the radiology and imaging features in tuberculosis of urinary tract.
5. Enumerate renal masses in children. Describe in detail the radiological and imaging features of Wilm's tumour.
6. Describe the various mullerian duct anomalies related to the uterus. How would you distinguish a 'SEPTATE' from a BICORNUATE uterus?
7. Describe the radiological and imaging approach in male infertility.
8. Posterior urethral valve obstruction.
9. Contrast CT in Adrenal Tumors.
10. Endometriosis.

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M.D. Degree Examination – 03/Oct/2025

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

RADIO DIAGNOSIS - PAPER – IV

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. Discuss normal CSF pathway and describe etiopathology of non-neoplastic causes of hydrocephalus.
2. Classify common types of spinal dysraphism and discuss radiological features of diastematomyelia.
3. Causes of intra-cerebral bleed, CT features of hypertensive bleed.
4. Imaging features in glioma.
5. High Intensity Focused Ultrasound
6. Retinoblastoma.
7. PACS.
8. What is Machine Learning? mention the applications of Artificial Intelligence in Radiology
9. Diffusion Tensor Imaging
10. Cone beam CT.

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