

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

Post Graduate Degree Examination – November- 2016

Time : 3 Hrs.

[Max. Marks : 100]

M.D RADIO-DIAGNOSIS

PAPER - I

Q.P Code : RS 3501

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

LONG ESSAY

10 X 10 = 100 Marks

1. Intravascular iodinated contrast media.
2. Describe in detail about picture archiving and communication systems (PACS).
3. Discuss differential diagnosis and imaging features of painless, expansile lesion involving single RIB in an adult.
4. Write in detail the basic physics in radionuclide imaging and Gamma camera.
5. Positron emission tomography.
6. Write about the harmful effects of radiation, radiation protection for staff and public with detailed description of thermoluminescent dosimetry.
7. Describe in detail about
 - a) Osteoporosis
 - b) Osteogenesis imperfecta
8. Write about the parameters that provide contrast in MR and Pulse sequences in MRI.
9. Imaging features and classification of Osteogenic sarcoma
10. Define scatter radiations. Comment briefly on the factors controlling scatter radiations.

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PAPER - II

Q.P Code : RS-3502

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LONG ESSAY

10 X 10 = 100 Marks

1. Discuss the imaging approach to an elderly patient presenting with dysphagia.
2. Discuss role of imaging in evaluation of inflammatory diseases of the colon.
3. Imaging assessment of Pancreatitis.
4. Describe embryology of gut rotation and fixation. Discuss the differential diagnosis of a neonate with bilious vomiting.
5. Describe in detail the imaging evaluation of an adrenal incidentaloma.
6. Discuss the anatomy of a secondary pulmonary lobule. Write a note on lymphangitis carcinomatosa and its imaging differentials.
7. Mention the causes of respiratory distress in newborn. Discuss their imaging findings in detail.
8. Describe mediastinal anatomy. Discuss the imaging findings in posterior mediastinal masses.
9. How will you approach a case of solitary pulmonary nodule.
10. Thymic tumours.

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M.D. RADIO-DIAGNOSIS

PAPER - III

Q.P Code : RS-3503

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

LONG ESSAY

10 X 10 = 100 Marks

1. Discuss the indications, techniques, advantages and disadvantages of CT urography and MR Urography.
2. Imaging features of acute scrotum.
3. Sonographic soft markers of chromosomal anomalies.
4. Role of MDCT in evaluation of an elderly patient with acute chest pain.
5. Enumerate the immediate, early and delayed complications of renal transplantation and role of imaging in their evaluation.
6. Discuss the techniques, advantages, limitations of CTA and MRA.
7. What are the causes of hematuria? Describe the imaging approach in a case of hematuria.
8. Describe the instrumentation and principles of Radiofrequency ablation. Discuss the indications, patient selection, procedure and complications of R.F.A.
9. Discuss imaging approach in the evaluation of paediatric renal masses.
10. Describe the imaging features in of genitourinary tuberculosis.

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Time : 3 Hrs.

[Max. Marks : 100]

M.D. RADIO-DIAGNOSIS

PAPER - IV

Q.P Code : RS-3504

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary

LONG ESSAY

10 X 10 = 100 Marks

1. Describe imaging features of breast cancer on mammography, ultrasound and MRI. Briefly outline approach (by flow chart) in BIRAD 4 lesion.
2. MR spectroscopy. Discuss its role in neuro imaging.
3. What do you understand by perfusion imaging. Briefly describe CT and MR perfusion imaging techniques.
4. Discuss the role of neuro sonography in neonates.
5. Enumerate various causes of suprasellar lesions in adults and children. Describe plain radiographic, CT and MRI features of Craniopharyngioma.
6. Enumerate causes of spinal canal stenosis. Describe plain radiographic, CT and MRI features of spinal canal stenosis.
7. Describe imaging features and intervention in vein of galen malformation.
8. Describe the grading, imaging features and differential diagnosis of Glioblastoma multiforme.
9. Classify neural tube closure defects. Describe various chiari malformations and their imaging features.
10. Describe anatomical variations of circle of Willis with help of diagram. Enumerate the sites of intracranial aneurysm.