



SRI DEVRAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH
(A DEEMED TO BE UNIVERSITY)

Post Graduate Degree Examination - July 2021

Time : 3 Hrs

Max Marks : 100

M.D RADIO-DIAGNOSIS
Paper- I QP Code: P3171

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

LONG ESSAY

10 X 10 = 100

1. What is radiation protection? Enumerate various methods of radiation protection.
2. What is image intensifier? Explain with a diagram its construction and application in radiology.
3. Describe principles of PET scan and its role in evaluation in neoplastic and non-neoplastic disease.
4. Advantages of 3T MRI over 1.5 T MRI. Comment on limitations.
5. Draw a neat labelled diagram depicting anatomy of rotator cuff. Describe the role of ultrasound in suspected rotator cuff injury.
6. Describe the imaging findings osteoclastoma (GCT).
7. Enumerate the various causes of soft tissue calcification and discuss in detail regarding any one of them.
8. Discuss in detail about the radiological findings in hyperparathyroidism.
9. Describe the imaging features osteopetrosis.
10. Describe the anatomy of adrenal glands. Write an account of radiological and imaging techniques used in the diagnosis of the lesions of adrenal glands.



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Paper- II QP Code: P3172

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LONG ESSAY

10 X 10 = 100

1. Role of imaging in lymphoma of the stomach.
2. A 25 year old male presented with life threatening hemoptysis. Discuss in brief role of chest radiograph, CT scan and role of interventional radiology.
3. Describe the imaging features of pulmonary sarcoidosis.
4. Radiological features of congenital lobar overinflation.
5. Discuss the imaging approach in the case of solitary pulmonary nodule.
6. Discuss the role of plain X ray abdomen in evaluation of non-traumatic acute-abdominal pain.
7. Discuss imaging findings in achalasia cardia.
8. Enumerate various causes of colonic strictures and discuss the role of imaging in evaluation of colonic strictures.
9. Discuss the imaging findings in benign lesions of liver.
10. Describe in detail about evaluation of splenic lesions and its imaging findings.



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Paper- III QP Code: P3173

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LONG ESSAY

10 X 10 = 100

1. Describe the radiological features in the following conditions:
 - A. Left atrial enlargement
 - B. Aortic stenosis
2. Discuss the imaging features of thoracic aortic aneurysm .
3. What are the causes & imaging features of constrictive pericarditis.
4. Discuss the pathology of renal hypertension and radiological investigations for the same.
5. Discuss the imaging feature of acute and chronic pyelonephritis.
6. Discuss various conditions causing acute scrotum and ultrasound features of the same.
7. Enumerate the causes of infertility. What is the role of imaging in assisted reproduction.
8. Discuss in detail the imaging of ectopic pregnancy and its differential diagnosis.
9. Describe various benign ovarian cystic lesions.
10. Discuss the imaging features in peripheral arterial disease.



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Paper- IV QP Code: P3174

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LONG ESSAY

10 X 10 = 100

1. Discuss the role of imaging in diagnosis & management of stroke.
2. Discuss the differential diagnosis of inherited white matter diseases and write the imaging features in a case of adrenoleukodystrophy.
3. Write the imaging features of primary CNS lymphoma.
4. Classify spinal tumours? Discuss differential diagnosis and radiological features of extradural spinal tumours.
5. Discuss various skull base lesions and radiological features of posterior cranial fossa tumors.
6. Discuss the imaging features of laryngeal carcinoma.
7. Discuss the role of imaging in differentiating of benign and malignant thyroid nodules.
8. Discuss the causes and imaging features in soft tissue calcifications.
9. Embolic agents and their clinical considerations in CNS vascular malformations.
10. Describe the extra-pulmonary complications of Covid-19 infection.