

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

Post Graduate Degree Examination – April / May - 2015

Time : 3 Hrs.

[Max. Marks : 100]

M.D RADIO-DIAGNOSIS

PAPER - I

Q.P Code : RS3501

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY

10 X 10 = 100 Marks

1. Draw a diagram of ultrasound transducer. Write in detail its construction and different types and its uses.
2. Radiological anatomy of SELLATURCICA.
3. Sero negative arthritis.
4. Radio isotopes.
5. Basic MRI sequences.
6. Modern X-ray tube.
7. Write in detail basic physics of CT scan.
8. Ultrasound contrast media.
9. Radiation protection.
10. Mucopolysacchardosis.

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M.D RADIO-DIAGNOSIS

PAPER - II

Q.P Code : RS-3502

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY

10 X 10 = 100 Marks

1. A 25 year old male presented with life threatening haemoptysis. Draw an algorithm to outline management of such a case. Discuss in brief role of chest radiograph, CT scan (with newer advances) and role of interventional radiology.
2. Enumerate various diseases caused by inhalation of inorganic dust. Briefly describe chest radiographic and CT findings of two most common such diseases.
3. Discuss the role of CT and MRI in staging of lung cancer.
4. Draw a labeled diagram of broncho pulmonary segments on a chest PA and lateral radiograph of left lung.
5. Briefly describe embryological development of pancreas. Describe various anomalies and variations in its development with the help of suitable diagrams. Discuss imaging features (on barium meal and CT scan) of annular pancreas.
6. Enumerate various infections and neoplasms affecting gastrointestinal tract in AIDS. Briefly describe barium meal follow through and CT features of AIDS lymphoma.
7. Classify polypoidal lesions of the colon. Mention radiological differences between benign and malignant polyps. Discuss salient imaging features of various types of adenomatous polyps.
8. Describe normal gastroesophageal junction with the help of suitable diagram. Label various rings and lines visualized on double contrast barium swallow. Discuss imaging features of schatzkis ring.
9. A 15 day old infant has presented with prolonged conjugated hyperbilirublnernia accompanied by non pigmented stools. Name the possible etiology. Describe imaging features and various associations that may be seen in such a case.
10. With the help of diagrams describe the mediastinal spaces. Enumerate and briefly give the differential diagnosis of an anterior mediastinal mass.

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PAPER - III

Q.P Code : RS-3503

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LONG ESSAY

10 X 10 = 100 Marks

11. Describe the indications technique, complications and post procedure follow up in tips.
12. Write in brief about technique, indications, contraindications and complications of radiofrequency ablation.
13. Discuss indications, technique and complications of bronchial artery embolization.
14. Write briefly
 - a. Imaging in benign uterine conditions
 - b. Gestational trophoblastic disease.
15. Describe the technique and features of CT angiography in pulmonary thromboembolism.
16. Evaluation, classification and interventional management of trauma to genitorurinary tract.
17. Describe the types and imaging features of abnormal pulmonary venous drainage.
18. Discuss in detail the imaging of ectopic pregnancy and its differential diagnosis.
19. Discuss briefly
 - a. Papillary necrosis,
 - b. Xanthogranulomatous pyelonephritis.
20. Radiological evaluation of prostate with evaluation of prostatic cancer.

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M.D RADIO-DIAGNOSIS

PAPER - IV

Q.P Code : RS-3504

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Draw neat labelled diagrams wherever necessary.

LONG ESSAY

10 X 10 = 100 Marks

1. Discuss the role of MRI in breast diseases.
2. Enumerate intra-ventricular masses in children and discuss their imaging features.
3. Role of MRI in entrapment and compressive neuropathy of peripheral nerves of the upper extremity.
4. Flat panel detector.
5. Discuss the various neuroinfections in AIDS patients.
6. Describe the role of MR spectroscopy in neuroimaging.
7. Discuss in brief the imaging features and differential diagnosis of inherited white matter diseases.
8. Elastography.
9. Discuss the principles and basis of CT perfusion imaging and its various assessment parameters.
10. Describe the anatomy of limbic system. Discuss the role of imaging in temporal lobe epilepsy.

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