NATIONAL BOARD OF EXAMINATIONS

FINAL EXAM DECEMBER 2011

.

RADIO DIAGNOSIS

PAPER-I

RDG/D/11/40/I

Time : 3 hours Max. Marks : 100

Attempt all questions in order. Each question carries 10 marks.

1.	Discuss the etiopathogenesis, imaging features and differential diagnosis of silicosis.	3+4+3
2.	Enumerate various germ cell tumours of mediastinum. Discuss their imaging features.	3+7
3.	Enumerate the causes of Acute Respiratory Distress Syndrome. Give in detail the imaging findings.	3+7
4.	Classify aortic dissection. Describe the role of C.T. Angiography in diagnosis and management of aortic dissection.	2+5+3
5.	Briefly describe the penile arterial flow physiology. Discuss the technique and utility of duplex sonography in evaluation of erectile dysfunction.	3+4+3
6.	Discuss grading of renal trauma. Describe the role of imaging in its evaluation.	4+6
7.	Define abnormal endometrial thickening. Enumerate its causes and discuss their imaging features.	2+2+6
8.	Enumerate various cardiomyopathies. Describe their imaging features.	3+7
9.	Describe venous drainage of testis. Discuss imaging features and interventions in varicocele.	3+4+3
10.	List various causes of female infertility. Discuss the role of H.S.G. and MRI in their evaluation.	2+4+4

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RADIO DIAGNOSIS

PAPER-II

RDG/D/11/40/II

Time : 3 hours Max. Marks : 100

Attempt all questions in order. Each question carries 10 marks.

1.	Enumerate causes of subarachnoid hemorrhage. Discuss the role of CT in its evaluation.	2+8
2.	Describe in brief anatomy of sella turcica. Enumerate various sellar and parasellar masses. Discuss imaging features of craniopharyngioma.	3+2+5
3.	Enumerate causes of demyelinating diseases of spinal cord. Discuss their imaging features and differential diagnosis.	2+5+3
4.	Name various motility disorders of oesophagus. Discuss pathophysiology and imaging features of cardiac achalasia.	2+3+5 \
5.	Enumerate causes of multiple nodular filling defects in small bowel. Discuss the imaging features of small bowel lymphoma.	3+7
6 .	Enumerate different varieties of osteosarcoma. Discuss their imaging features.	3+7
7.	Enumerate various pancreatic masses of childhood. Discuss imaging features and differential diagnosis of pancreatoblastoma.	2+5+3
8.	Describe etiopathogenesis of osteomyelitis. Discuss role of imaging in diagnosis of acute osteomyelitis.	4+6
9.	Discuss current indications of MRI in breast cancer evaluation. Discuss MR imaging features of breast cancer.	5+5
10.	List various causes of bleeding in first trimester. Discuss their sonographic features.	2+8

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RADIO DIAGNOSIS

PAPER-III

RDG/D/11/40/III

Time: 3 hoursMax. Marks: 100Attempt all questions in order.Each question carries 10 marks.

1.	Define Doppler effect. Briefly describe Colour Doppler and Power Doppler modes of imaging. Enumerate advantages of each mode.	1+4+5
2.	Describe major component of a PACS system and their functions in brief.	10
3.	Enumerate various Colour Doppler parameters used in Intra- uterine Growth Retardation (IUGR). Briefly discuss their role in IUGR. Mention significance of aortic isthmus index.	2+6+2
4.	Enumerate causes of acute chest pain in an elderly patient. Briefly describe CT finding in three common likely conditions.	1+3+3+3
5.	Briefly describe diffusion protocol for MRI Breast and characterization of benign and malignant breast lesion.	2+4+4
6.	Enumerate indications of scintigraphic evaluation in GI bleed. Briefly discuss technique, radio-isotopes used and interpretation of results.	2+4+2+2
7.	Enumerate causes of mesenteric ischemia. Briefly discuss plain radiographic, ultrasound, CT findings and role of intervention in this condition.	2+2+2+2+2
8.	Enumerate various vascular complications in renal transplant. Briefly discuss role of colour Doppler, CT, MRI and intervention in these conditions.	1+3+2+2+2
9.	Mention various interventional techniques used in hepatocellular carcinoma (HCC). Briefly discuss indications and technique of two commonly employed techniques. Outline protocol for follow up in a case of HCC.	1+8+1
10.	Describe principle of Dual energy CT, different techniques of dual energy acquisition and various applications.	3+2+5
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RADIO DIAGNOSIS

PAPER- IV

RDG/D/11/40/IV

Time : 3 hours Max. Marks : 100

Attempt all questions in order. Each question carries 10 marks.

1.	Briefly describe MRI and MRS findings in prostatic carcinoma and its staging. Discuss role of TRUS biopsy.	4+4+2		
2.	Discuss the principle, components, advantages and limitations of digital radiography.	1+4+3+2		
3.	Define pulmonary sequestration. Describe its types, and discuss CT findings and role of angiography in it.	2+1+4+3		
4.	Discuss clinical presentation, imaging findings on ultrasound, CT and MRI in Vein of Galen malformation. Briefly discuss its interventional management.	2+2+2+2+2		
5.	Discuss clinical associations of hypertrophic osteoarthropathy. Briefly describe its radiological findings, differential diagnosis and role of Nuclear Medicine.	3+4+2+1		
6.	What is Pancreas Divisum? Briefly discuss its embryologic basis, and clinical significance. What are ERCP, MRCP and MDCT findings?	2+3+5		
7	Define film contrast. Enumerate various factors affecting film contrast. Briefly discuss methods to improve it.	2+4+4		
8.	Describe in brief different components and their function of a rotating x-ray tube. Draw its neat diagram and label its components.	5+5		
9.	Describe various mammographic techniques in brief, types of mammographic equipments available and current recommendations for its use for routine screening.	· 4+3+3		
10.	Describe measurement technique and normal values of nuchal translucency. Briefly discuss its role in Trisomy 21 and other chromosomal anomalies.	4+2+2+2		
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