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SUBJECT: PAPER I: BASIC SCIENCES RELATED TO RADIOLOGY (IT CONSISTS OF ANATOMY, PATHOLOGY, BASIC AND RADIATION PHYSICS, IMAGING TECHNIQUES AND DARK ROOM PROCESSING)

Tuesday, October 08, 2019

Tim	e: 14:00 – 17:00 Hrs.	Max. Marks: 100
Ø	Answer ALL the questions.	
Ø	Long questions:	
1.	Discuss the basic principles of MR imaging.	
		(15 marks
2.	Discuss the imaging anatomy of the knee joint.	(15 marks
3.	Short questions:	
3A.	Compton effect	
3B.	Transformer	
3C.	Mobile x-ray unit	
3D.	Intra operative ultrasound	
3E.	Flat panel digital radiography	
3F.	Describe the anatomy of Gastro-oesophageal junction & imaging of hiatu	s hernia.
3G.	Pregnancy and radiation	,
3H.	Peizo electric effect	
31.	Tomosynthesis	
3J.	Principles of dual energy computed tomography(DECT)	
	(7 mar	$rks \times 10 = 70 \text{ marks}$

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SUBJECT: PAPER II: CVS, RESP, GIT (INCLUDING HEPATOBILIARY), ENDOCRINE, CHEST, MAMMOGRAPHY

Wednesday, October 09, 2019

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer ALL the question.
- Z Long questions:
- 1. Discuss the role of a radiologist in management of a patient with vascular claudication pain.

(15 marks)

2. Imaging evaluation of suspected Venous thrombo embolism. What are the pitfalls in CT pulmonary angiography?

(15 marks)

- 3. Short questions:
- 3A. Double outlet right ventricle
- 3B. Cortriatriatum
- 3C. Heterotaxy syndromes
- 3D. Bronchial carcinoid
- 3E. Chest trauma
- 3F. Interstitial pneumonias
- 3G. CT Imaging of acute pancreatitis
- 3H. Anorectal malformation
- 31. Ileocaecal tuberculosis
- 3J. Cystic lesions of the breast

 $(7 \text{ marks} \times 10 = 70 \text{ marks})$

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SUBJECT: PAPER III: GENITOURINARY, RETROPERITONEUM, CNS INCLUDING HEAD AND NECK, MUSCULOSKELETAL SYSTEM, OBST. & GYNAE, ENT AND EYE AND INTERVENTIONAL RADIOLOGY

Thursday, October 10, 2019

Time: 14:00 – 17:00 Hrs.	Max. Mark	cs: 100

- Answer ALL the questions.
- ∠ Long questions:
- 1. Describe the etiology and pathogenesis of renovascular hypertension. Discuss in brief the role of various imaging modalities in evaluation of the condition.

(15 marks)

2. Enumerate tumors of sella and suprasellar regions. Describe imaging features of craniopharyngioma and its differential diagnosis in detail.

(15 marks)

- 3. Short Notes:
- 3A. Retropritonealtumours and relevant imaging strategies
- 3B. Atlantoaxial dislocation
- 3C. Craniosynostosis
- 3D. Renal rickets
- 3E. Pseudotumours of kidney
- 3F. Thyroid ophthalmopathy
- 3G. Neuropathic joints
- 3H. MRI in evaluation of uterine anomalies
- 3I. MRI in Parkinsonism
- 3J. Diagnosis and intervention of epistaxis

 $(7 \text{ marks} \times 10 = 70 \text{ marks})$

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SUBJECT: PAPER IV: RECENT ADVANCES AND NUCLEAR MEDICINE RADIOLOGY RELATED TO CLINICAL SPECIALITIES

Friday, October 11, 2019

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- ∠ Long questions:
- 1. Recent trends in minimally invasive image guided therapies for hepatic malignancies.

(15 marks)

2. Discuss the principles of diffusion weighted imaging and its utility.

(15 marks)

- 3. Short questions:
- 3A. Newer MR contrast media.
- 3B. MRI in endometrial pathologies.
- 3C. In phase and out of phase MRI imaging.
- 3D. Digital Tomosynthesis in breast imaging.
- 3E. PET in evaluation of lymphoma.
- 3F. Imaging in brain death.
- 3G. Extended field of view ultrasound imaging.
- 3H. Describe principle of ultrasound elastography and its clinical applications.
- 3I. Speckle reduction imaging.
- 3J. CT fluoroscopy.

 $(7 \text{ marks} \times 10 = 70 \text{ marks})$