April-2001

# [KD 146]

Sub. Code : 2084

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### M.D. DEGREE EXAMINATION. (Revised Regulations) Branch VIII - Radio Diagnosis Part II - Final Paper III -- RADIO DIAGNOSIS INCLUDING INTERVENTIONAL PROCEDURES Time : Three hours Maximum : 100 marks Answer ALL questions. What is rectification? Discuss the solid state

rectifiers and its advantages over conventional vacuum rectifiers.

How do you test the working of rectifier system?

(25)

Ω. Describe the development of GIT. Write in short the radiological appearances in Malrotation of the :00 (25)gut. 3.

Short notes on :  $(5 \times 10 = 50)$ 

- (a) Film badge
- (b) Icherol
- (c) Transducers
- (d) Radiological anatomy of the sella
- (e) Sialography.

March-2002

[KG 146]

Sub. Code : 2044

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Branch VIII -- Radiodiagnosis

Part II - Final

### Paper III — RADIODIAGNOSIS INCLUDING INTERVENTIONAL PROCEDURES

Time : Three hours .- Maximum : 100 marks

Answer ALL questions.

 Discuss the role of imaging in Abdominal Trauma. (25)

2. Describe the various "Image guided" procedures commonly performed. (25)

Write briefly on : (5 × 10 = 50)

(a) High resolution CT.

(b) Stress fracture.

(c) Portal hypertension.

(d) Solitary pulmonary nodule.

(e) CNS anomalies in the fetus.

April-2003

# [KI 146]

Sub. Code : 2043

#### M.D. DEGREE EXAMINATION.

(Revised Regulations)

#### Branch VIII - Radiodiagnosis

Part II - Final

#### Paper III — RADIODIAGNOSIS INCLUDING INTERVENTIONAL PROCEDURES

Time : Three hours

Maximum : 100 marks

#### Answer ALL questions.

1. Discuss the role of radiology in diagnosis and management of pancreatitis? (25)

2. Discuss the current status of vascular interventional techniques. (25)

3. Write short notes on  $(5 \times 10 = 50)$ 

(a) Imaging of pituitary adenoma

(b) CT and MRI in intervertebral disc prolapse

(c) Scquestration (lung)

(d) Intraventricular neoplasms in children

(e) Digital radiography.

# [KJ 146]

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## Sub. Code : 2044

 $(2 \times 15 = 30)$ 

M.D. DEGREE EXAMINATION.

(New/Revised Regulations)

Branch VIII --- Radiodiagnosis

Part II - Final

### Paper III - RADIODIAGNOSIS INCLUDING INTERVENTIONAL PROCEDURES

Time : Three hours <	Maximum : 100 marks
Theory : Two hours and	Theory : 80 marks
Forty minutes	
M.C.Q. : Twenty minutes	M.C.Q. : 20 marks

M.C.Q. must be answered SEPARATELY on the answer sheet provided as per the instructions on the first page.

Answer ALL questions.

Draw suitable diagrams wherever necessary.

Essay questions :

Role of interventional radiology in the evaluation of intra cranial AV Malformations.

2. Role of interventional radiology in gastrointestinal bleeding.

3. Short notes :  $(10 \times 5 = 50)$ 

Transhepatic biliary drainage - procedure and 1. indications.

2. Spin - echo technique in MR imaging.

Stereotaxis in Mammography. 3.

Evaluation of pseudo-pancreatic cysts by 4. ultrasound.

Ring lesions in the brain - evaluation by C.T. 5.

Congenital dislocation of the hip joint -6. radiological evaluation.

7. Spleeno - portogram - procedure and indications.

8. Differential diagnosis of cystic lung disease.

9. Role of echocardiography in congenital heart disease.

Write about positron emission tomography. 10.

2

# KM 146]

### Sub. Code : 2044

# M.D. DEGREE EXAMINATION.

(Revised Regulations)

3ranch VIII — Radiodiagnosis

Part II - Final

### Paper III — RADIODIAGNOSIS INCLUDING INTERVENTIONAL PROCEDURES

Time : Three hours	Maximum : 100 marks
Theory : Two hours and	Theory : 80 marks
forty minutes	

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

#### Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Essay questions :  $(2 \times 15 = 30)$ 

(1) Classify and discuss ADRENAL MASSES. Discuss the imaging investigations of the past and present and add notes on the salient findings noted on the various imaging investigations. (2) Discuss the currently used Angiography methods in Neuro Radiology and elaborate on present day interventional neuroradiology. Describe the congenital anomalies of the "circle of willis".

II. Short notes :  $(10 \times 5 = 50)$ 

(a) Portable chest radiography techniques and teleradiology

(b) Extraluminal air, diagnosis and significance

(c) Scrotal ultrasound

(d) Positron emission tomography imaging of the. thorax

(e) Technical aspects of helical C.T.

(f) MR imaging of the meniscus of the knee

(g) Catheter based angiography its present and future applications

(h) Post menopausal bleeding value of imaging

(i) Radiological evaluation of inflammatory myopathies

(j) Paediatric upper gastro-intestinal tract evaluations

2

[KM 146]

[KO 146]	Sub. Code : 2043	II. Short notes	: (10 × 5 = 50)		
M.D. DEGREE EX	AMINATION.	(a) Contr Angiography (CE	ast Enhanced Magnetic Resonance MRA).		
Branch VIII — R	adiodiagnosis	(b) CT gu	ided biopsy of lung mass.		
		(c) Pneun	Pneumo mediastinum.		
RADIODIAGNOSIS INCLUDING INTERVENTIONAL PROCEDURES AND RECENT ADVANCES	(d) I.V.C.	I.V.C. filter placement.			
Time : Three hours	Maximum : 100 marks	(e) Dopple of leg.	er evaluation of deep vein thrombosis		
Theory : Two hours and forty minutes	Theory : 80 marks		nic meningitis in a child-imaging		
M.C.Q. : Twenty minutes	M.C.Q.: 20 marks	(g) Urothe	lial malignancy.		
Answer ALL o	juestions.	(h) Functi	onal MRI of brain.		
Draw suitable diagrams	wherever necessary.		d pappilloma.		
I. Essay questions :	$(2 \times 15 = 30)$	(j) Leforte	fractures.		
(1) What are the cause	es of unilateral proptosis.				

Discuss radiological diagnosis and management carotico-covernus fistula.

(2) Classify mucopoly sacharidosis. Describe radiological features of MPS IV.

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[KO 146]

[KQ 136]

Sub. Code : 2044

### M.D. DEGREE EXAMINATION.

Branch VIII - Radio Diagnosis

Paper IV (For candidates admitted from 2004-2005 onwards)

### RADIO DIAGNOSIS INCLUDING INTERVENTIONAL PROCEDURES AND RECENT ADVANCES

Time : Three hours	Maximum : 100 marks		
Theory : Two hours and forty minutes	Theory : 80 marks		
M.C.Q. : Twenty minutes	M.C.Q. : 20 marks		

Answer ALL questions.

Draw suitable diagrams wherever necessary

L Essay Questions :

1. Write about image production in Magnetic resonance, mention briefly about 2D & 3D pictures & contrast used in MRI. (20)

2. M.R. Spectroscopy in the evaluation of Pediatric Cancers. (15)

 Write about Dental CT – Techniques, Applications and Advantages. (15)

- II. Short notes : (6 × 5 = 30)
  - (a) M.R. Urography
  - (b) PACS in managing digital images
  - (c) Spleeno portogram procedure & indications
  - (d) Transcranial Doppler

(e) Hypotonic Duodenography – Procedure and Indications

(f) Imaging of para thyroid gland

[KQ 136]

[KS 139]

Sub. Code : 2034

M.D. DEGREE EXAMINATION.

Branch VIII — Radio Diagnosis

(Common to all Regulations)

Paper IV — RADIO DIAGNOSIS INCLUDING INTERVENTIONAL PROCEDURES AND RECENT ADVANCES

Q.P. Code : 202034

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Essay:

 $(2 \times 20 = 40)$ 

- 1. Write about interventional procedures of the kidney and its blood vessels.
- 2. Discuss the differential diagnosis and radiological features of pulsating exopthalmos. Briefly discuss the role of interventional radiology in pulsating exophthalmos.
- II. Short notes :

 $(10 \times 6 = 60)$ 

- 1. SPECT.
- 2. Artifacts in Cardiac CT.
- 3. Role of penile colour doppler in the evaluation of erectile Dysfunction.
- 4. Isotope scanning in liver disorder.
- 5. Role of CT in cerebral bleeds.
- 6. Mammography.
- 7. Role of MRI in demylinating disease.
- 8. Barium swallow.
- 9. Neurocysticercosis.
- 10. Base of the Skull.

March 2009

[KU 139]

Sub. Code: 2034

# **M.D. DEGREE EXAMINATION**

# **Branch VIII – RADIO DIAGNOSIS** (Candidates admitted from 2007-2008)

# Paper IV – RADIO DIAGNOSIS INCLUDING INTERVENTIONAL PROCEDURES AND RECENT ADVANCES *O.P. Code : 202034*

# **Time : Three hours**

# hours Maximum : 100 marks Draw suitable diagram wherever necessary. Answer ALL questions.

# I. Essay questions :

 $(2 \times 20 = 40)$ 

 $(10 \times 6 = 60)$ 

- 1. Discuss the procedure and role of magnetic resonance shoulder arthrography in Gleno –Humeral instability.
- 2. Discuss the differential diagnosis and radiological features of collapsed vertebra. Briefly discuss the role of interventional radiology in collapsed vertebra.

# II. Write short notes on :

- 1. Transjugular liver biopsy.
- 2. Clinical applications of diffusion weighted magnetic resonance imaging.
- 3. Femoro Acetabular impingement.
- 4. Role of interventional radiology in male infertility.
- 5. Magnetic resonance imaging findings in extra axial mass lesions.
- 6. Vascular ultrasound.
- 7. Artefacts in cardiac computer tomography.
- 8. Hepato-biliary scintigraphy.
- 9. Magnetic resonance cholangio pancreatography (MRCP).
- 10. Cardiac computer tomography angiogram.

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# **March 2010**

[KW 139]

Sub. Code: 2034

# **M.D. DEGREE EXAMINATION**

# Branch VIII – RADIO DIAGNOSIS Paper IV – (for candidates admitted upto 2007-2008) and Part II / Paper III – (for candidates admitted from 2008-2009 onwards)

# RADIO DIAGNOSIS INCLUDING INTERVENTIONAL PROCEDURES AND RECENT ADVANCES *O.P. Code : 202034*

# Time : Three hours

hours Maximum : 100 marks Draw suitable diagram wherever necessary. Answer ALL questions.

# **I.** Essay questions :

# $(2 \times 20 = 40)$

- 1. Classify bone tumors and discuss in detail about tumors of cartilage origin.
- 2. Discuss the methods of radiation protection. How do you protect the occasional exposed and occupationally exposed.

# **II.** Write short notes on :

- 1. Retrocaval ureter.
- 2. Medullary sponge kidney / page kidney.
- 3. M.R. Angiography.
- 4. Intra operative ultrasound.
- 5. C.T. pneumosialography.
- 6. Broncho-pulmonary segments and hypoplasia / aplasia of lung.
- 7. H.R.C.T. in Sweyer James syndrome.
- 8. Renal scintigraphy.
- 9. Small kidney.
- 10. VACTEREL anomaly.

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### $(10 \times 6 = 60)$

# MAY 2011

[KY 139]

Sub. Code: 2034

## **M.D. DEGREE EXAMINATION**

## **BRANCH VIII – RADIO DIAGNOSIS**

# **RADIO DIAGNOSIS INCLUDING INTERVENTIONAL PROCEDURES**

# AND RECENT ADVANCES

Q.P. Code : 202034

Q.1. Coue : 202034	N/					
Time : 3 hours		Maximum : 100 marks				
(180 Min) Answer ALL questions in the same order.						
I. Elaborate on :	Pages (Max.)	Time (Max.)	Marks (Max.)			
1. What are the differentials for a patient presenting						
with fever, altered sensorium and seizures. Discuss						
the imaging findings in Herpes Encephalitis.	11	35	15			
2. Describe the boundaries and contents of the						
Carotid Space. List the differentials for a mass in						
the carotid space. Discuss the role of intervention						
radiology in the diagnosis and management.	11	35	15			
II. Write notes on :						
1. Direct digital radiography.	4	10	7			
2. Ring enhancing lesions in the brain.	4	10	7			
3. Arterial supply to the liver and normal variants.	4	10	7			
4. Acroosteolysis.	4	10	7			
5. Spinal ultrasound.	4	10	7			
6. Hydrocephalus.	4	10	7			
7. Radiofrequency ablation.	4	10	7			
8. 'Spoiled' Gradient Echo sequences.	4	10	7			
9. MRI shoulder arthrogram.	4	10	7			
10. Cytotoxic edema.	4	10	7			

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