

April-2001

[KD 144]

Sub. Code : 2041

M.D. DEGREE EXAMINATION.

(New Regulations/Revised)

Branch VIII — Radio Diagnosis

Part II — Final

Paper I — RADIO DIAGNOSIS INCLUDING
NUCLEAR MEDICINE

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss the radiological and imaging evaluation of unilateral proptosis in paediatric age group. (25)
 2. Describe the radiological anatomy of mediastinum. Discuss in detail radiological and imaging evaluation of posterior mediastinal masses. (25)
 3. Short notes : (5 × 10 = 50)
 - (a) Radionuclide scanning of biliary system.
 - (b) Oesophageal varices.
 - (c) MR angiography.
 - (d) Spiral/Helical CT.
 - (e) Neurotuberculosis .
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March-2002

[KG 144]

Sub. Code : 2041

M.D. DEGREE EXAMINATION.

(New/Revised Regulations)

Branch III — Radiodiagnosis

Part II — Final

Paper I — RADIODIAGNOSIS INCLUDING
NUCLEAR MEDICINE

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Describe the radiological anatomy of the small bowel. Discuss the radiological and imaging evaluation of small bowel disorders with emphasis on enteroclysis. (25)
2. Describe the radiological anatomy of the spinalcord. Discuss the radiological and imaging evaluation of spinal dysraphism. (25)
3. Write Short notes on : (5 × 10 = 50)
 - (a) Role of HRCT in interstitial lung disease.
 - (b) Neuro sonography.
 - (c) Renal scan/Renogram.
 - (d) Interventional procedures in intra cranial aneurysm.
 - (e) MR contrast agents.

April-2003

[KI 144]

Sub. Code : 2041

M.D. DEGREE EXAMINATION.

(New/Revised Regulations)

Branch VIII — Radiodiagnosis

Part II — Final

Paper I — RADIODIAGNOSIS INCLUDING
NUCLEAR MEDICINE

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss the radiological approach to a patient with haematuria. (25)
 2. Discuss the role of various imaging techniques in the evaluation of cerebro-vascular accident. (25)
 3. Short notes : (5 × 10 = 50)
 - (a) Pulmonary edema
 - (b) Skeletal scintigraphy
 - (c) Coin lesions of lung
 - (d) Neuro tuberculosis
 - (e) Osteo-lytic lesions of skull.
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[KJ 144]

Sub. Code : 2041

M.D. DEGREE EXAMINATION.

(New/Revised Regulations)

Branch VIII — Radiodiagnosis

Part II — Final

Paper I — RADIODIAGNOSIS INCLUDING
NUCLEAR MEDICINE

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 :

(2 × 15 = 30)

1. (a) Enumerate on Second and Third trimester
bleeding during pregnancy.

(b) Space occupying lesions of the liver – Role of
Ultrasound and CT in evaluating the same.

2. Short notes / Each 5 marks (10 × 5) Answer ALL
questions : (50)

(a) Predicting foetal weight by ultrasound.

(b) Thyroid nodule evaluation by ultrasound and
radio isotopes.

(c) Bladder outlet obstruction –Radiological
evaluation.

(d) Radiological evaluation of right upper quadrant
pain.

(e) Trasrectal sonography – write about
indications.

(f) Precautions while handling
Radiopharmaceuticals.

(g) Write about development of kidney.

(h) Imaging of the parathyroid gland.

(i) Writing about M.R.I. artefacts.

(j) Pott's Spine – discuss the radiological
features.

[KM 144]

Sub. Code : 2041

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Branch VIII — Radiodiagnosis

Part II — Final

Paper I — RADIODIAGNOSIS INCLUDING
NUCLEAR MEDICINE

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.

I. Essay questions : (2 × 15 = 30)

(1) Write an essay on the historical evolution of Arteriography. Describe in detail the equipments required and the technique involved in performing a four vessel arteriographic study of the cranium.

(2) Discuss diffuse Pulmonary Disease. Describe the Patho-physiology and radiology of Pulmonary Edema.

II. Short notes : (10 × 5 = 50)

- (a) Adverse reaction to contrast media
- (b) Causes of lung consolidation in adults
- (c) C.T. evaluation of mediastinal masses
- (d) Adult respiratory distress syndrome
- (e) The circulatory changes at birth
- (f) Cyanotic heart disease
- (g) Congenital anomalies of the pericardium
- (h) Doppler in intra-uterine growth retardation
- (i) Hysteru-salpingography
- (j) Breast cancer screening.

[KO 144]

Sub. Code : 2041

M.D. DEGREE EXAMINATION.

Branch VIII – Radiodiagnosis

**RADIODIAGNOSIS INCLUDING NUCLEAR
MEDICINE**

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 × 15 = 30)

(1) What are the causes for non-cardiac chest pain in a middle aged man?

Discuss in detail the role of Radiology and imaging in a case of suspected pulmonary embolism.

(2) Discuss the radiological evaluation of a patient brought in emergency department with blunt abdominal trauma.

II. Short notes : (10 × 5 = 50)

- (a) Dynamic renal scan.**
- (b) Parapharyngeal space.**
- (c) Brain herniation.**
- (d) Thymoma.**
- (e) Dissecting aneurysm of thoracic aorta.**
- (f) Adrenal Myelolipoma.**
- (g) Atypical Meningioma.**
- (h) Pathological intracranial calcifications.**
- (i) Developmental dysplasia of hip.**
- (j) Scintigraphy in acute cholecystitis.**

[KQ 134]

Sub. Code : 2041

M.D. DEGREE EXAMINATION.

Branch VIII — Radio Diagnosis

RADIO DIAGNOSIS INCLUDING NUCLEAR
MEDICINE

Common to

Part II — Final Paper I — (Old/New/Revised
Regulations)

(Candidates admitted from 1988–89 onwards)
and

Paper II — (For candidates admitted from
2004–2005 onwards)

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 :

1. What are Radiopharmaceuticals? Mention precautions taken while handling them Enumerate the role of Radio isotopes scan in obstructive jaundice. (20)

2. Write about space occupying lesions of the liver, role of Ultrasound and CT in evaluating the same. (15)

3. Role of Radiology and Imaging in the evaluation of Acute Abdomen. (15)

II. Short notes : (6 × 5 = 30)

(a) Classify anatomical locations of mediastinal masses.

(b) Spinal canal stenosis

(c) Thyroid nodule evaluation by radio isotopes and ultrasound.

(d) Blighted Ovum.

(e) Placenta Previa.

(f) Describe briefly Radiological features of cretinism.

MARCH 2008**[KS 137]****Sub. Code : 2032**

M.D. DEGREE EXAMINATION.

Branch VIII — Radio Diagnosis

RADIO DIAGNOSIS INCLUDING NUCLEAR MEDICINE

Common to all regulations

Q.P. Code : 202032

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

- I. Essay questions : (2 × 20 = 40)
1. Describe ionization and scintillation. Describe scintillation detector in detail and explain how it helps in imaging organs in modern techniques. (20)
 2. Describe radiology and imaging of acute pancreatitis. (20)
- II. Short notes : (10 × 6 = 60)
1. Virtual colonoscope.
 2. Ventilation perfusion radionuclide lung scan
 3. Double contrast study in upper G.I, Tract.
 4. SARS (Severe Acute Respiratory Syndrome)
 5. Fistulography VS and Endo sonography in Fistula-in-ano.
 6. Adrenal metastasis.
 7. Ultrasonographic features of cyst in liver and its differential diagnosis.
 8. Image intensifier
 9. Discuss differential of coin lesion of lung.
 10. Hysterosalpingography.
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March 2009

[KU 137]

Sub. Code: 2032

M.D. DEGREE EXAMINATION

Branch VIII – RADIO DIAGNOSIS

(Candidates admitted upto 2007-2008)

Paper II – RADIO DIAGNOSIS INCLUDING NUCLEAR MEDICINE

Q.P. Code : 202032

Time : Three hours

Maximum : 100 marks

Draw suitable diagram wherever necessary.

Answer ALL questions.

I. Essay questions :

(2 x 20 = 40)

1. Discuss lung perfusion studies in various diseases of lungs.
2. Discuss the role of radiology and imaging in portal hypertension.

II. Write short notes on :

(10 x 6 = 60)

1. MRCP - Magnetic Resonance Cholangio Pancreatography.
2. Isotopic hepatobiliary study.
3. PET – CT – Positron emission tomography – computer tomography.
4. Isotopic cardiac imaging.
5. Imaging of pancreas.
6. ARDS – Acute Respiratory distress syndrome.
7. Pulmonary microlithiasis.
8. Spalding sign.
9. Agenesis of lung.
10. Patent ductus arteriosus.

March 2010

[KW 137]

Sub. Code: 2032

M.D. DEGREE EXAMINATION

Branch VIII – RADIO DIAGNOSIS

**Paper II – (for candidates admitted upto 2007-2008) and
Part II / Paper I – (for candidates admitted from 2008-2009 onwards)**

RADIO DIAGNOSIS INCLUDING NUCLEAR MEDICINE

Q.P. Code : 202032

Time : Three hours

Maximum : 100 marks

Draw suitable diagram wherever necessary.

Answer ALL questions.

I. Essay questions :

(2 x 20 = 40)

1. Discuss the role of radiologic imaging modalities in the evaluation of mid line brain lesions.
2. Discuss the role of MR findings in the evaluation of koch's involvement of appendicular skeleton.

II. Write short notes on :

(10 x 6 = 60)

1. MR spectroscopy.
2. Colour doppler in DVT.
3. PET scan.
4. MRI – diffusion weighted imaging.
5. Tumor embolisation.
6. Virtual bronchoscopy.
7. C.T. guided biopsy.
8. Post operative stomach barium study.
9. Sono salphingography.
10. Calvarial metastasis.

MAY 2011

[KY 137]

Sub. Code: 2032

M.D. DEGREE EXAMINATION
BRANCH VIII – RADIO DIAGNOSIS
RADIO DIAGNOSIS INCLUDING NUCLEAR MEDICINE

Q.P. Code : 202032

Time : 3 hours
(180 Min)

Maximum : 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

Pages Time Marks
(Max.) (Max.) (Max.)

- | | | | |
|---|----|----|----|
| 1. A child aged three years presents with a palpable flank mass. Discuss the imaging algorithm with justification. List the differentials and describe the imaging findings of Wilm's Tumour. | 11 | 35 | 15 |
| 2. Enumerate the differentials for back pain in a male aged 25 years. What is the role of MRI in the evaluation? Describe the imaging findings in infective spondylitis. | 11 | 35 | 15 |

II. Write notes on :

- | | | | |
|---|---|----|---|
| 1. Hepatic hemangioma. | 4 | 10 | 7 |
| 2. IDA scan. | 4 | 10 | 7 |
| 3. Sesta MIBI scan. | 4 | 10 | 7 |
| 4. Craniovertebral junction – normal radiographic measurements. | 4 | 10 | 7 |
| 5. Pterygopalatine fossa. | 4 | 10 | 7 |
| 6. Metadiaphyseal lucent lesion. | 4 | 10 | 7 |
| 7. Platyspondyly. | 4 | 10 | 7 |
| 8. Microcalcification on mammogram. | 4 | 10 | 7 |
| 9. Painful scrotal swelling. | 4 | 10 | 7 |
| 10. Pancreas divisum. | 4 | 10 | 7 |
