

April-2001

[KD 145]

Sub. Code : 2048

M.D. DEGREE EXAMINATION.

Branch VIII — Radio Diagnosis

(Revised Regulations)

Part II — Final

Paper II — RADIO DIAGNOSIS INCLUDING  
INSTRUMENTATION AND CONTRAST STUDIES

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Enumerate the causes of haematuria. Describe the radiological approach to a case of haematuria.
  2. What is Spiral CT? Discuss the principle and the components of Spiral CT. What are its advantages and disadvantages as compared to conventional CT?
  3. Write briefly on :
    - (a) Ultrasound contrast media.
    - (b) Magnavist.
    - (c) Gardner's syndrome.
    - (d) Rib notching.
    - (e) Venous doppler.
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March-2002

[KG 145]

Sub. Code : 2043

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Branch VIII — Radiodiagnosis

Part II — Final

Paper II — RADIODIAGNOSIS INCLUDING  
INSTRUMENTATION CONTRAST STUDIES

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss the role of imaging in a focal liver lesion. (25)
2. How will you plan a 'Department of Radiology Imaging' in a 1000 bedded speciality hospital. (25)
3. Write short notes on : (5 × 10 = 50)
  - (a) Spiral CT.
  - (b) Lung changes in AIDS.
  - (c) Non ionic contrast media.
  - (d) Perthes' disease.
  - (e) Biophysical profile of fetus.

April-2003

[KI 145]

Sub. Code : 2042

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Branch VIII — Radiodiagnosis

Part II — Final

Paper II — RADIODIAGNOSIS INCLUDING  
INSTRUMENTATION CONTRAST STUDIES

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss the role of various imaging modalities in the diagnosis and management of blunt abdominal trauma. (25)
  2. Describe the technique of Myelogram. Describe the various radiographic features of diseases in and around spinal canal. (25)
  3. Short notes on : (5 × 10 = 50)
    - (a) Peripheral Venography
    - (b) CT angiography
    - (c) Placental sonography
    - (d) PTC (Percutaneous Transhepatic cholangiography)
    - (e) RGP (Retrograde pyelography)
-

[KJ 145]

Sub. Code : 2043

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Branch VIII — Radiodiagnosis

Part II — Final

Paper II — RADIODIAGNOSIS INCLUDING  
INSTRUMENTATION AND CONTRAST STUDIES

Time : Three hours. Maximum : 100 marks

Theory : Two hours and forty Theory : 80 marks  
minutes

M.C.Q. : Twenty minutes M.C.Q. : 20 marks

MCQ 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.

1. Essay question : (2 × 15 = 30)

(a) Acute abdomen — role of radiology and  
imaging.

(b) Write about image production in Magnetic  
Resonance and about 2D, 3D pictures and contrast used  
in MRI imaging.

2. Short notes (Each 5 marks) : (10 × 5 = 50)

(a) Procedure for CT guided lung biopsy.

(b) Colour Doppler evaluation of the scrotum.

(c) Procedure and indications for hypotonic  
duodenography.

(d) Congenital dislocation of the hip — radiological  
evaluation.

(e) Radiological features of bowel ischemia.

(f) Radiological evaluation of benign strictures of  
the oesophagus.

(g) Chest radiogram in pulmonary oedema.

(h) Evaluation of obstructive jaundice by  
ultrasound.

(i) Classify anatomical locations of mediastinal  
masses.

(j) Positioning and indications for base of skull  
view.

[KM 145]

Sub. Code : 2043

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Branch VIII — Radiodiagnosis

Part II — Final

Paper II RADIO DIAGNOSIS INCLUDING  
INSTRUMENTATION AND CONTRAST STUDIES.

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 :    (2 × 15 = 30)

(1) Describe the various Methods involved in IMAGING OF THE SPLEEN. Elaborate on the causes of Splenomegaly and give a detailed description of the value of splenoportography in Portal Hypertension.

(2) Describe the General Characteristics of Bone Tumours. Discuss in detail the Radiology and Imaging Characteristics of Bone tumours of Osteoid Origin.

II. Short notes :    (10 × 5 = 50)

- (a) Hounsfield Units.
- (b) Strictures of the Small Intestine.
- (c) Disorders of Thymus.
- (d) Intravenous Urography in Acute Obstruction.
- (e) Radiology of Renal Tuberculosis.
- (f) "CARPAL INSTABILITY".
- (g) Bone and Joint Changes in Bleeding disorders.
- (h) Describe conditions associated with dense metaphyseal bands.
- (i) High frequency X-ray generator.
- (j) Radiology of Systemic Sclerosis.

[KO 145]

Sub. Code : 2042

M.D. DEGREE EXAMINATION.

Branch VIII — Radiodiagnosis

RADIODIAGNOSIS INCLUDING  
INSTRUMENTATION AND CONTRAST STUDIES

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) Enumerate causes of bleeding per rectum in an adult male. Describe the procedure and interpretation of double contrast barium enema in ulcerative colitis.

(2) Discuss radiological approach to arthritis. Briefly describe the conventional radiological finding in a case of poly-articular rheumatoid arthritis.

II. Short notes :                      (10 × 5 = 50)

- (a) Sono mammography.
- (b) CT and MRI features of vertebral haemangioma.
- (c) Skeletal manifestations of hyperparathyroidism.
- (d) Super conductive magnet in MRI.
- (e) Three dimensional CT (3D CT) in fracture acetabulum.
- (f) Positron Emission Tomography in brain imaging.
- (g) Quantitative CT in osteoporosis.
- (h) Antenatal diagnosis of duodenal atresia.
- (i) Magnetic Resonance Spectroscopy in brain imaging.
- (j) CT image artefacts.

**[KP 145]**

**Sub. Code : 2042**

**II. Short notes :**

**(6 × 5 = 30)**

**M.D. DEGREE EXAMINATION,**

**Branch VIII — Radiodiagnosis**

**RADIODIAGNOSIS INCLUDING  
INSTRUMENTATION AND CONTRAST STUDIES**

**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) Describe the technique of spinal angiogram embolizations. (20)**

**(2) Describe the role of HRCT in diffuse interstitial lung disease. (15)**

**(3) Discuss the principle of spiral CT. What are the applications of various reconstruction methods? (15)**

[KQ 135]

Sub. Code : 2042

M.D. DEGREE EXAMINATION.

Branch VIII — Radio Diagnosis

RADIO DIAGNOSIS INCLUDING  
INSTRUMENTATION AND CONTRAST STUDIES

Common to

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

(Candidates admitted from 1988–89 onwards)

And

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

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 :

1. Compare and contrast the Role of CT and Carotid  
angiography in the intracranial – supratentorial lesions.

(20)

2. Mention in detail the techniques of Aortography.  
What are the indications and complications of  
Aortography. (15)

3. Renal Tuberculosis – Discuss the role of Radiology  
and Imaging. (15)

II. Short notes : (6 × 5 = 30)

(a) Procedure for CT guided lung biopsy

(b) Non-ionic contrast media

(c) Bladder outlet obstruction –Radiological  
evaluation.

(d) Radiological evaluation of benign strictures  
of the oesophagus.

(e) Percutaneous Transhepatic biliary drainage  
– procedure and indications.

(f) Write about Ultrasound contrast media.



**MARCH 2008**

**[KS 138]**

**Sub. Code : 2033**

M.D.DEGREE EXAMINATION.

Branch VIII — Radio Diagnosis

RADIO DIAGNOSIS INCLUDING INSTRUMENTATION AND  
CONTRAST STUDIES

(Common to all Regulations)

**Q.P. Code: 202033**

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

- I. Essay : (2 × 20 = 40)
1. Discuss the value of MR cholangiography in children and young adults with biliary disease.
  2. How do you evaluate bone tumours with magnetic resonance imaging and correlation with surgical and gross pathological finding?
- II. Short notes : (10 × 6 = 60)
1. Ultrasonography of shoulder (rotator cuff)
  2. Ultrasound of musculoskeletal soft tissue mass.
  3. MR and MR pancreaticography in annular pancreas.
  4. Para-duodenal hernias.
  5. Splenic artery aneurysms.
  6. Tuberculoma.
  7. Towns view.
  8. Focal liver lesions.
  9. Biophysical profile.
  10. Thyroid scan.
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**March 2009**

**[KU 138]**

**Sub. Code: 2033**

**M.D. DEGREE EXAMINATION**  
**Branch VIII – RADIO DIAGNOSIS**  
**(Candidates admitted upto 2007-2008)**

**Paper III – RADIO DIAGNOSIS INCLUDING INSTRUMENTATION  
AND CONTRAST STUDIES**

*Q.P. Code : 202033*

**Time : Three hours**

**Maximum : 100 marks**

**Draw suitable diagram wherever necessary.**

**Answer ALL questions.**

**I. Essay questions :**

**(2 x 20 = 40)**

1. Magnetic Resonance (MR) angiography of brain. (In children and adults).
2. Discuss sclerotic lesions of the bone in an elderly person.

**II. Write short notes on :**

**(10 x 6 = 60)**

1. Role of ultrasound in first trimester of pregnancy.
2. Ultrasound imaging in adrenal tumors.
3. Undescended testis.
4. Eventration of diaphragm.
5. Neurocysticercosis.
6. Skyline view.
7. Cystic diseases of the kidney.
8. Renal artery stenosis.
9. Retinoblastoma.
10. Classification of contrast media.

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**March 2010**

**[KW 138]**

**Sub. Code: 2033**

**M.D. DEGREE EXAMINATION**

**Branch VIII – RADIO DIAGNOSIS**

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

**RADIO DIAGNOSIS INCLUDING INSTRUMENTATION  
AND CONTRAST STUDIES**

*Q.P. Code : 202033*

**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 radio imaging modalities in the evaluation of extra thoracic manifestations of bronchogenic carcinoma.
2. Discuss the role of radio imaging modalities in the evaluation of granulomatous pyelonephritis. How will you differentiate from non-granulomatous pyelonephritis?

**II. Write short notes on : (10 x 6 = 60)**

1. Iodism.
2. Right iliac fossa masses.
3. Terato dermoid.
4. Haematuria.
5. Role of colour Doppler in erectile dysfunction.
6. Interventional techniques in ultrasound.
7. Post operative T- tube cholangiogram.
8. Bronchial fistula.
9. Hamartoma.
10. Duplication of collecting systems.

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MAY 2011

[KY 138]

Sub. Code: 2033

**M.D. DEGREE EXAMINATION**  
**BRANCH VIII – RADIO DIAGNOSIS**  
**RADIO DIAGNOSIS INCLUDING INSTRUMENTATION**  
**AND CONTRAST STUDIES**

*Q.P. Code : 202033*

**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. What are the differentials for a male aged 55 years presenting with hemoptysis. Discuss plain radiograph and CT findings in the evaluation of Bronchogenic carcinoma. | 11 | 35 | 15 |
| 2. What is the schedule for antenatal ultrasound scans? Discuss the significance of scans done in the first trimester.   | 11 | 35 | 15 |

**II. Write notes on :**

- |  |   |    |   |
|--|---|----|---|
| 1. HRCT in sarcoidosis.                      | 4 | 10 | 7 |
| 2. Bilateral inferior rib notching.          | 4 | 10 | 7 |
| 3. Pulmonary venous hypertension.            | 4 | 10 | 7 |
| 4. Crohn's v/s TB.                           | 4 | 10 | 7 |
| 5. Small bowel enema.                        | 4 | 10 | 7 |
| 6. Neonate not having passed meconium.       | 4 | 10 | 7 |
| 7. Image guided treatment of pelvic abscess. | 4 | 10 | 7 |
| 8. MRI in female infertility.                | 4 | 10 | 7 |
| 9. Contrast enhanced ultrasound.             | 4 | 10 | 7 |
| 10. GIST.                                    | 4 | 10 | 7 |

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