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**MD Radio–diagnosis
Examination, May 2018**

Paper First

Basic Sciences, Radiophysics, Radiopharmaceutical & Equipments, Dark
Room Procedures & Equipments

Time: Three Hours]

[Maximum Marks: 100

Note: Attempt all questions. Illustrate your answer with suitable diagrams

[10x10]

1. Arterial anatomy of extracranial & intracranial carotid vascular system with diagrams.
2. Low osmolar water soluble contrast media
3. Radiation monitoring devices
4. Radiography of Odontoid process
5. Define scatter radiation. Discuss briefly the parameters which influence scatter radiation & methods to decrease scatter.
6. Principles of Doppler ultrasound. Briefly describe colour & pulsed wave Doppler imaging.
7. MRI contrast media.
8. Multi detector CT technology.
9. Ultrasound image artifacts
10. Principle & types of digital radiography & discuss its advantages & disadvantages with reference to conventional radiography.

Printed page (s): 1

Paper Code: MD-146

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**MD Radio–diagnosis
Examination, May 2018**

Paper Second

Clinical & Applied Radiology, Central Nervous System, Respiratory and chest,
cardiovascular system

Time: Three Hours]

[Maximum Marks: 100

Note: Attempt all questions.

1. Discuss the following -

[15×4]

- a. Unilateral opaque hemithorax
- b. Role of Radio-Imaging in posterior mediastinal lesion
- c. Causes & differential diagnosis of intra medullary neoplasm
- d. Various types of Arnold Chiari malformation & their imaging findings.

2. Write notes on:

[10×4]

- a. Total anomalous pulmonary venous drainage
- b. Scimitar syndrome
- c. Inferior rib notching
- d. CNS manifestations in lymphoma.

Printed page (s): 1

Paper Code: MD-147

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**MD Radio diagnosis
Examination, May 2018**

Paper Third

Clinical & Applied Radiology, Gastrointestinal, Genitourinary
and Musculoskeletal system.

Time: Three Hours]

[Maximum Marks: 100

Note: Attempt all questions.

1. A 70 year old man presented with lower GI bleed. Mention various causes of lower GI bleed & briefly describe role of contrast studies, CT scan imaging & intervention in it. [20]
2. Enumerate causes of pain in right iliac fossa in 20 year old married female. Discuss the role of USG & CT scan in evaluation in this case. [20]
3. Describe briefly- [10x3]
 - a. CT v/s MR enteroclysis for assessment of small bowel diseases
 - b. Imaging in Infertility
 - c. Mullerian duct anomalies
4. Write short notes on- [10x3]
 - a. Hepatobiliary intervention in Obstructive Jaundice
 - b. Discuss the imaging features of avascular necrosis of Hip & its DD
 - c. Imaging of Rotator cuff lesions

Printed page (s): 1

Paper Code: MD-148

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**M.D. Radio diagnosis
Examination, May 2018**

Paper Fourth

Recent Advances, Interventional Radiology, Nuclear Medicine.

Time: Three Hours]

[Maximum Marks: 100

Note: Attempt all questions.

1. Describe imaging of renovascular hypertension. Discuss the role of interventional radiology in its management. [20]
2. Discuss briefly the recent advances in imaging of traumatic brain injury. [20]
3. Write short notes on: [5x4=20]
 - a. USG in MSK imaging
 - b. Intervention in portal hypertension
 - c. Radiopharmaceuticals
 - d. Digital radiography system
4. Write short notes on : [5x4=20]
 - a. Radiofrequency Ablations
 - b. Dry laser imaging camera
 - c. Renal nuclear imaging
 - d. Applications of dual energy CT
5. Discuss briefly the role of PET-CT in onco-imaging with its advantages & limitations over other imaging modalities. [20]
