

RADIO DIAGNOSIS

TIME: 3 HOURS

MAX. MARKS: 100

- Answers to questions of Part A and part strictly attempted in separate answer sheets and the

PAPER-I

RDG/D/18/40/I

IMPORTANT INSTRUCTIONS

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Write Short notes on:

PART A

1. Enumerate the various causes of bilateral T2 hyper intense 4+6 lesions in basal ganglia. Describe the neuroimaging findings in Wilson’s disease.
2. a) Role of magnetic resonance imaging in head injury. 5 + 5
b) Role of diffusion weighted imaging in intracranial infections.
3. a) Draw a labelled diagram of a coronal section through 5 + 5 the “cavernous sinus”.
b) Discuss the differential diagnosis of cavernous sinus lesions.

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Please read carefully the important instructions mentioned on Page '1'

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4. Draw a labelled diagram depicting the normal anatomy of 5+5 orbit. Discuss the imaging findings of orbital pseudotumour and thyroid ophthalmopathy.
5. a) Computed tomographic and magnetic resonance imaging findings in mycotic sinusitis. 5 + 5
b) Imaging features of orbital involvement in Neurofibromatosis type 1.

P.T.O.

PAPER-I

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PART B

6. Depict the anatomy of maxillary sinus using a labelled 5 + 5 diagram. Discuss the role of imaging in the diagnosis of mucocele of maxillary sinus.
7. a) Explain the role of HRCT temporal bone and MRI in the workup of a case of congenital sensory neural hearing loss (SNHL) for a possible cochlear implant. 4+6
b) Enumerate the key CT imaging features which must be commented upon from the perspective of a surgeon about to undertake a cochlear implant.
8. Explain what you understand by the term BIRADS. 3+2+5 Enumerate the indications of magnetic resonance mammography. Explain the technique of magnetic resonance mammography.

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- 9. Enumerate the causes of osteoporosis. Discuss the role of 4+6 plain radiography in the evaluation of skeletal manifestations of hyperparathyroidism.
- 10. a) Explain the role of plain radiography in various diseases 5+5 of the joints.
b) What is the role of ultrasound of joints in the evaluation of a case of rheumatoid arthritis?

PAPER-II

RDG/D/18/40/II

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PART A

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1. Enumerate the causes of bilateral lung cysts in an adult 5+5 and discuss the role of HRCT in the differential diagnosis.
2. Enumerate the causes of lobar collapse. Describe the 5+5 various chest radiographic findings of left upper lobe and left lower lobe collapse.
3. Draw a line diagram to define the radiological anatomy of 5+5 mediastinum. Discuss the differential diagnoses of anterior mediastinal masses based on computed tomography examination findings.
4. Enumerate the causes of bilateral upper lobe fibrosis. 4+6 Discuss the HRCT findings in intrathoracic sarcoidosis.
5. Enumerate the various lines and tubes encountered on 5+5 chest radiographs in patients admitted to the intensive care unit (ICU). Discuss the imaging findings in pulmonary oedema.

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PAPER-II

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PART B

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6. a) Describe the technique of multi-detector CT pulmonary 5+5 angiography (MDCTPA) in a suspected patient of acute pulmonary thromboembolism. b) Enumerate the false positive and false negative CT Pulmonary Angiography (CTPA) findings which can influence the assessment in such a patient suspected with pulmonary thromboembolism.
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7. a) Myocardial viability imaging. 5+5
b) Chest radiograph findings in mitral valve disease
8. a) Imaging features in Tetralogy of Fallot. 5+5
b) Imaging features in partial anomalous pulmonary venous drainage.
9. Enumerate the benign pulmonary tumours and discuss their 4+6 differential diagnosis.
10. Outline the following using an algorithmic sequence: 5+5
a) Imaging approach in a patient with blunt trauma to chest.
b) Imaging approach in a patient with blunt trauma to abdomen.

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PAPER-III

RDG/D/18/40/III

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Write Short notes on:

PART A

1. Describe the role of conventional radiography and 5+5 computed tomography in the evaluation of a suspected case of acute large bowel obstruction.
2. a) Imaging in esophageal motility disorders. 5+5
b) Imaging in post-operative stomach.
3. Enumerate the various causes of strictures in the small 5+5 intestine. Describe the imaging findings in Crohn's disease of the small intestine.
- Answers to questions of Part A and part strictly attempted in separate answer sheets and the
4. a) Role of magnetic resonance imaging in the evaluation 5+5 of hemochromatosis and iron overload states.
b) Role of sonographic and Doppler evaluation in a patient of portal hypertension.

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5. Describe the technique of multiphasic CT scan study of 4+6 liver. Discuss the imaging findings of hepatoma.

P.T.O.

PAPER-III

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PART B

6. Describe the indications, contraindications and technique 2+2+6 of CT urography.
7. Describe the role of ultrasound, computed tomography 2+2+6 and magnetic resonance imaging in the diagnosis and staging of endometrial carcinoma.
8. Describe the indications, contraindications, technique 2+2+4+2 and complications of hysterosalpingography.
9. a) PCPNDT Act. 5+5
b) Ultrasound findings in a 12 week foetus with Down syndrome.

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10. a) Imaging findings in abruptio placentae. 5+5
b) Imaging findings in molar pregnancy.

PAPER-IV

RDG/D/18/40/IV

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Write Short notes on:

PART A

1. Discuss the physical principles of the ultrasound contrast 5+5 media. Enumerate the safety issues and recommendations regarding their clinical use.
2. Define 4DCT technique and enumerate the situations in 2+3+5 which it is used and discuss in detail the technique of 4DCT of parathyroid.

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3. Discuss the factors which tend to affect the image quality 5+5 on a computed tomography (CT) scan. Describe the diverse radiation dose reduction strategies which can be employed while carrying out a thoracic CT scan.
 4. Enumerate the various post-processing techniques which 5+5 can be used during a thoracic computed tomography (CT) examination. State the clinical utility of each of these post- processing techniques citing examples.
 5. Enumerate the various pulse sequences used in magnetic 5+5 resonance imaging. State the clinical utility of each pulse sequence citing examples. P.T.O.

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RADIO DIAGNOSIS
PAPER-IV

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PART B

6. Describe the basic principles of PET-CT. Discuss the 5+5 advantages and disadvantages of PET-MRI over PET- CT.
7. Enumerate the various liquid embolic agents used in 4+6 interventional Radiology. Discuss the role of interventional Radiologist in the management of Cerebral Arteriovenous malformations.
8. Discuss the indications, pharmacokinetics, and method of 3+3+4 iodine131 metaiodobenzylguanidine scintigraphy.
9. Describe the basic physical principles, indications, 3+2+2+3 contraindications and technique of radiofrequency ablation of liver tumours.
10. a) Kappa measure (in terms of statistical analysis of 5+5 medical data).
b) The Receiver Operating Characteristics (ROC).

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RADIODIAGNOSIS
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Write Short notes on:

PART A

1. a) Draw a labelled diagram of neck spaces. 6+4
b) Enumerate lesions of parapharyngeal spaces.
2. a) Describe in brief revised WHO classification of brain tumours. 7+3
b) Enumerate primitive Neuroectodermal tumours of the brain.
3. a) A 45-year-old female came with a lump in unilateral breast. How will you evaluate this patient on imaging? 6+4
b) Describe BI-RADS classification used for reporting of mammogram.
4. a) Enumerate various causes of hemolytic anemia. 2+(5+3)
b) Describe the imaging findings in a case of thalassemia major. How will you differentiate it from sickle cell disease on imaging?
5. a) State the distinguishing features of intramedullary, extramedullary-intradural and extradural spinal lesions on MRI. 6+4
b) Discuss briefly the differential diagnosis of intramedullary spinal lesions.

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PART B

6. a) Describe in brief anatomy of the shoulder joint. 4+6
b) Briefly state various MR sequences and planes used to evaluate shoulder joint on MR (Magnetic resonance) imaging.
7. a) What are the causes of hyperparathyroidism? 4+6
b) Enumerate the finding on Plain film, CT and scintigraphy of primary hyperparathyroidism.
8. a) Enumerate causes of unilateral proptosis. 4+(3+3)
b) Describe briefly imaging findings of optic gliomas and Caroticocavernous fistula.
9. A 40 year old female has presented with loss of vision and instability in gait. 6+4
a) Discuss the differential diagnosis and MR findings of the most probable cause.
b) What is the role of Diffusion Tensor Imaging in this patient?
10. A 15-year boy presents with localized swelling and pain of 2 months duration involving right lower thigh. 4+6
a) What will be its differential diagnosis?
b) Discuss Conventional Radiographic, CT and MRI features of the commonest primary malignant bone tumour in this age.

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Write Short notes on:

PART A

- Describe anatomy of lung on High Resolution Computed Tomography (HRCT). 3+3+4
 - What are the common patterns of imaging features seen in various interstitial lung diseases (ILD)?
 - Describe HRCT features of Usual Interstitial Pneumonia (UIP).
- A 25-year-old presented with life threatening hemoptysis. 2+(4+4)
 - Draw an algorithm to outline radiological management of such a case.
 - Discuss in brief imaging features on conventional radiology, CT scan and MRI; and role of interventional radiology.
- Describe the arterial anatomy of carotid vascular system with the help of labelled diagram. 4+6
 - Discuss the role of Ultrasound and Color Doppler imaging in evaluation of extra cranial carotid occlusive disease.
- What do you understand by the term extramedullary hematopoiesis? 2+3+5
 - Enumerate its causes.
 - Discuss its plain film and cross sectional imaging findings.
- Enumerate the causes of acute respiratory distress syndrome. 5+5
 - Give in detail radiological management of aortic dissection.

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PART B

- | | | |
|-----|--|-------|
| 6. | a) Enumerate causes of thoracic aortic aneurysm in a patient below the age of 40. | 3+3+4 |
| | b) Briefly describe the role of imaging in the diagnosis of these patients. | |
| | c) Describe radiological management of these patients. | |
| 7. | a) Describe the normal anatomy of coronary arteries. | 4+6 |
| | b) Discuss the role of MDCT in coronary artery diseases. | |
| 8. | a) Enumerate various tumours of heart. | 5+5 |
| | b) Describe the imaging features in myxoma of heart. | |
| 9. | a) Discuss the differential diagnosis in a 7-year old boy presenting with a pulsatile swelling of the right forearm. | 4+6 |
| | b) Describe the imaging findings with Doppler and MRI. | |
| 10. | a) Venous anatomy of lower limb with the help of a diagram. | 4+6 |
| | b) Technique of Color Doppler Imaging of lower limb veins and imaging features of deep venous thrombosis (DVT). | |

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PART A

- a) Describe the anatomy of retroperitoneum on imaging. 4+6
 - b) Describe the radiological findings of 2 common non- tumour conditions occurring in the retroperitoneum.
- a) Name the diseases associated with H.pylori infection. 4+6
 - b) Briefly discuss Barium meal features of benign and malignant gastric ulcers supported by a suitable diagram.
- a) Mention the various interventional techniques used in the management of hepatocellular carcinoma (HCC). 4+6
 - b) Briefly describe the guidelines outlining the criteria of response assessment of hepatocellular carcinoma.
- a) What are the causes of vesico-ureteric reflux? 5+5
 - b) Describe the imaging in vesico-ureteric reflux along with its grade with well labelled diagrams.
- a) Enumerate causes of Gastroduodenal artery bleed. 3+3+4
 - b) Mention current imaging techniques for its diagnosis.
 - c) Describe Interventional Radiology techniques used in its management.

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PART B

6. a) Enumerate causes of painless hematuria in a 55-year-old patient. 4+(3+3)
b) Discuss the imaging features and role of Interventional Radiology in any two pathologies.
7. a) Enumerate various complications of acute and chronic pancreatitis. 3+3+4
b) Describe in brief their imaging features.
c) Describe in brief their management by Interventional Radiologist.
8. a) Enumerate various color Doppler parameters used in IUGR. 4+4+2
b) Briefly discuss their role in IUGR.
c) Mention the significance of aortic isthmus index.
9. A 36-year-old male presented to emergency department with blunt abdominal trauma. 5+5
a) Describe in brief imaging findings requiring urgent intervention.
b) Discuss MDCT findings in hepatic injury.
10. a) Describe penile circulation. 3+3+4
b) What are the causes of male impotence?
c) Role of Color Doppler imaging in impotence.

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Write Short notes on:

PART A

1. Discuss indications, technique, management and complications of bronchial artery embolization. 2+2+3+3
2. a) Enumerate various ultrasonic contrast media. 4+3+3
b) Describe their principle.
c) Describe in brief their clinical application in evaluation of liver mass lesions.
3. a) Discuss the role of Scintigraphy in cardiac imaging. 4+3+3
b) Describe various artifacts and interpretation pitfalls associated with this technique.
c) Describe its role in brief in myocardial perfusion and viability.
4. a) Describe principles and techniques of USG Elastography. 6+4
b) Describe in detail clinical applications of compression Elastography.
5. a) Describe the basis of BOLD Imaging technique. 4+6
b) Describe its utility and limitations.

P.T.O

RADIOLOGY
PAPER-IV

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PART B

- | | | |
|-----|---|-------|
| 6. | a) Describe MR contrast media for liver imaging.
b) What is contrast induced nephropathy (CIN)?
c) What will you do to prevent CIN? | 4+3+3 |
| 7. | a) Describe the principle of Dual Energy CT.
b) Describe its various applications. | 5+5 |
| 8. | a) What is p value? What is its significance and clinical application in research?
b) What is sensitivity, specificity, positive predictive value, negative predictive value and accuracy? | 3+7 |
| 9. | a) What do you mean by AERB, eLORA and ALARA?
b) How will you minimize Radiation Hazards? | 4+6 |
| 10. | a) Artificial Intelligence in Health care.
b) Discuss its advantages and disadvantages. | 5+5 |
