

POST-GRADUATE DEGREE (M.D.) EXAMINATION – JANUARY 2024

Time: 3 Hours

Max. Marks: 100

RADIO-DIAGNOSIS
PAPER – I
(Basic Sciences as applied to Radio-diagnosis)

Q.P. Code: 1253

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Describe in detail the physics of image formation in MRI.
2. Describe the anatomy of lacrimal duct system and role of radiology for diagnostic value of dacryoeystography. (10+10)

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Describe Peizo-electric effect.
4. Components of computerized Radiography Cassette.
5. Mechanism vases of Auto-transformer.
6. Enumerate and classify non-ionic contrast media.
7. Discuss Principles of colour Doppler.
8. Discuss Teleradiology.

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RADIO-DIAGNOSIS

PAPER – II

(Cardiovascular system, respiratory system, GIT including hepato biliary, endocrine, chest mammography, lymphatic system, arteriography, phlebography)

Q.P. Code: 1254

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Describe the role of radiology in the investigation of Hypertensive patient.
2. Imaging in Breast diseases and interventional techniques in breast disease. (10+10)

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Biochemical and radiological features in renal rickets.
4. Percutaneous seldinger technique arterial catheterization.
5. Imaging features of Achalasia cardia.
6. Evaluation of Deep vein thrombosis.
7. Discuss imaging features of diaphragmatic hernias.
8. Discuss Sickle – cell disease ie, radiological findings.

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RADIO-DIAGNOSIS

PAPER – III

(Genitourinary, retroperitoneum, musculoskeletal system, Obstetrics & Gynaecology)

Q.P. Code: 1255

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Classify the bone tumors and mention radiological findings of osteogenic sarcoma. (10+10)
2. Enumerate the causes of Acute Abdomen and role of Radiology in Acute Abdomen. (10+10)

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Describe Nuchal Translucency.
4. Imaging findings in Fluorosis.
5. Radiological features of Renal Hypertension. .
6. Discuss radiological approach to secondary infertility.
7. Role of MR spectroscopy in prostatic Carcinoma.
8. Features of multiple myelomatosis.

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RADIO-DIAGNOSIS

PAPER – IV

(CNS including head and neck, Interventional radiology and Recent advances)

Q.P. Code: 1256

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Describe the various radiological and imaging investigations for localizing intra-ocular foreign body. (10+10)
2. Role of Triphasic imaging in solitary liver lesion.

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Differences between multidetector CT and conventional CT.
4. Discuss Intra cranial calcifications.
5. Radiography of Paranasal Sinuses.
6. Role of interventional radiology in portal hypertension.
7. Advantages of PET – CT.
8. Mention classification and radiological findings of spinal cord tumors.
