

Reg. No.									
----------	--	--	--	--	--	--	--	--	--

MANIPAL ACADEMY OF HIGHER EDUCATION

PG DIPLOMA IN RADIO-DIAGNOSIS (D.M.R.D.) EXAMINATION – OCTOBER 2020

SUBJECT: PAPER I: BASIC SCIENCES RELATED TO RADIOLOGY (ANATOMY, PATHOLOGY, BASIC AND RADIATION PHYSICS, TECHNIQUE AND DARK ROOM PROCESSING AND APPARATUS CONSTRUCTION)

Monday, October 05, 2020

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Answer ALL the questions.

✍ Long Questions:

1. Discuss anatomy of sella and parasellar region.

(15 marks)

2. Discuss the principles and working of Digital radiography

(15 marks)

3. Short Questions:

3A. Inversion Recovery sequence

3B. T-tube cholangiography

3C. Describe the cross sectional details of the conventional X-ray film and that of a one side coated film

3D. Dark room safelight

3E. Iohexol

3F. Describe the anatomy of Gastro-oesophageal junction and imaging of hiatus hernia.

3G. Filters in radiography and CT.

3H. Half value layer

3I. Factor affecting SNR in MRI

3J. Intra operative ultrasound

(7 marks × 10 = 70 marks)



Reg. No.

MANIPAL ACADEMY OF HIGHER EDUCATION

PG DIPLOMA IN RADIO-DIAGNOSIS (D.M.R.D.) EXAMINATION – OCTOBER 2020

**SUBJECT: PAPER II: CNS INCLUDING HEAD AND NECK, MUSCULOSKELETAL,
CHEST, MAMMOGRAPHY, C.V.S.**

Tuesday, October 06, 2020

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL questions.**

✍ **Long Questions:**

1. Classify mediastinal masses and discuss the imaging findings of thymic masses

2. Discuss the normal MRI anatomy, variants and pathologies of glenoid labrum

(15 marks × 2 = 30 marks)

3. **Short Questions:**

3A. BI-RADS

3B. Cortriatriatum

3C. Fetal circulation

3D. Enumerate the causes of honeycombing. Describe HRCT findings of Usual interstitial pneumonia.

3E. MRI in Parkinsonism

3F. Normal pressure hydrocephalus

3G. Atherosclerotic plaque assessment

3H. Osteochondroma

3I. Reiter's syndrome

3J. Interrupted periosteal reaction

(7 marks × 10 = 70 marks)



Reg. No.									
----------	--	--	--	--	--	--	--	--	--

MANIPAL ACADEMY OF HIGHER EDUCATION

PG DIPLOMA IN RADIO-DIAGNOSIS (D.M.R.D.) EXAMINATION – OCTOBER 2020

SUBJECT: PAPER III: ABDOMINAL IMAGING INCLUDING GI, GU, HEPATOBILIARY,
INTERVENTIONAL RADIOLOGY, OBST AND GYNAE

Wednesday, October 07, 2020

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Answer ALL questions.

✍ Long Questions:

1. Discuss imaging of paediatric renal masses.
2. Discuss the role of imaging in anorectal malformations

(15 marks × 2 = 30 marks)

3. Short Notes:

- 3A. Ulcerative colitis
- 3B. Discuss imaging of Mullerian anomalies
- 3C. Meckel's diverticulum
- 3D. Discuss the role of imaging in IUGR
- 3E. Biliary atresia
- 3F. Role of embolization of uterine artery in fibroids and PPH
- 3G. Fistula – in – ano
- 3H. Adenomyosis
- 3I. Imaging in pancreatic endocrine tumors.
- 3J. Polyposis syndromes of the GIT

(7 marks × 10 = 70 marks)

