

[LP 1019]

OCTOBER 2019

Sub. Code: 1813

**M.Sc. RADIOLOGY AND IMAGING TECHNOLOGY EXAMS
SECOND YEAR
PAPER III – NEWER AND IMAGING MODALITIES**

Q.P. Code : 281813

Time: Three hours

Maximum : 100 Marks

I. Elaborate on: **(2 x 20 = 40)**

1. Describe in detail about the techniques used in cardiac MRI for myocardial viability assessment. Elaborate about the different planes and techniques of acquisition.
2. Describe in detail about the techniques of CT Cisternogram, its indications and advantages.

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

1. Bold imaging.
2. Dixon techniques.
3. K space.
4. Tissue harmonic imaging.
5. PET MRI.
6. MRI artifacts.
7. Echo planar imaging.
8. Arterial spin labelling.
9. HRCT.
10. CTDI.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[AHS 0321]

MARCH 2021

Sub. Code: 1813

(OCTOBER 2020 EXAM SESSION)

M.Sc. RADIOLOGY AND IMAGING TECHNOLOGY

SECOND YEAR (From 2017-2018 onwards)

PAPER III – NEWER AND IMAGING MODALITIES

Q.P. Code : 281813

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate notes on:

(2 x 20 = 40)

1. Describe in detail about the techniques used in spine imaging Elaborate about the different planes and techniques of acquisition of MRI.
2. Details about Cardiac CT angiography preparation, technique, and post processing.

II. Write Short Notes on:

(10x6 = 60)

1. Dixon.
2. K – Space.
3. Eco planner imaging.
4. PET MRI.
5. Gamma camera.
6. Barium swallow
7. TOF & Phase Contrast sequence in brain angio.
8. Pulse Sequence.
9. CT Cisternography.
10. MR Enterography.

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[AHS 0921]

**SEPTEMBER 2021
(MAY 2021 EXAM SESSION)**

Sub. Code: 1813

**M.Sc. RADIOLOGY AND IMAGING TECHNOLOGY
SECOND YEAR (From 2017-2018 onwards)
PAPER III – NEWER AND IMAGING MODALITIES
*Q.P. Code : 281813***

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate notes on:

(2 x 20 = 40)

1. Describe in detail about the MRI Stroke protocol. Elaborate about technique and clinical importance.
2. Elaborate about the CT scanner principle, generation and instrumentation of CT scanner.

II. Write Short Notes on:

(10x6 = 60)

1. Instrumentation of MRI.
2. PET CT.
3. Slip ring technology.
4. CT Guided Biopsy.
5. PACS.
6. Collimators in gamma camera.
7. Dual energy CT.
8. Ultrasound artifact.
9. Mammography
10. HRCT.
