

[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.

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**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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