

[LP 1019]

OCTOBER 2019

Sub. Code: 1805

**M.Sc. RADIOLOGY AND IMAGING TECHNOLOGY EXAMS
FIRST YEAR
PAPER V – MODERN RADIOLOGICAL AND IMAGING EQUIPMENT**

Q.P. Code : 281805

Time: Three hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Classify various MRI pulse sequences. Discuss in detail about various types of MRI PERFUSION sequences, techniques and application.
2. Discuss in detail about the technique, preparation, application of CT Cisternogram and its advantages.

II. Write notes on:

(10 x 6 = 60)

1. Techniques of Ultrasound Elastography and its applications.
2. BOLD imaging.
3. HIFU – Principles and clinical uses.
4. DSA – Principle and application.
5. Tomosynthesis - technique.
6. Contrast agents used in MRI.
7. Virtual Bronchoscopy.
8. Principle and technique of dual energy CT.
9. Modern X-ray tube and its applications.
10. T2 Relaxometry.
