

[LO 0519]

MAY 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. Discuss in detail about Magnetic Resonance Cholangio Pancreatography (MRCP), indications, preparations, techniques and clinical uses.
2. Elaborate on basic principle of Ultrasound. Various types of Transducers. Describe in detail about image formation in Ultrasonography.

II. Write notes on:

(10 x 6 = 60)

1. DEXA - Scan.
2. Doppler imaging principle and applications.
3. Technique of MR perfusion.
4. Ultrasound image artifacts.
5. Various types of MRI artifacts and its remedies.
6. SPECT CT – principle and applications.
7. Metal artifacts reduction techniques in MRI.
8. Stitch radiography and application.
9. CT Fluoroscopy - principles.
10. Various generations of CT.
