

[LP 1019]

OCTOBER 2019

Sub. Code: 4016

**M.Sc. MEDICAL PHYSICS EXAMS
FIRST YEAR
PAPER VI – PHYSICS OF MEDICAL IMAGING**

Q.P. Code: 284016

Time : Three hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Explain the function of Modern X-ray Tube.
2. Explain the principles and functions of Digital X-ray and how it differ from Conventional X-ray images?

II. Write notes on:

(10 x 6 = 60)

1. What is Zero Radiography and Fluoroscopy?
2. Explain the minimum QA procedures in X-ray Unit.
3. What is T1 and T2 relaxation time in MRI?
4. Explain the X-ray Spectrum (Continues and Characteristic).
5. State the Safety Procedures in MRI unit.
6. Explain the filters used in Mammography.
7. Explain the scattered radiation reduction in X-ray.
8. Why Tungsten used in Cathode and Anode?
9. State the importance of Filters and Grids.
10. Write about Dental X-ray unit.
