

[LC 0413]

APRIL 2013

Sub. Code: 4016

M.Sc (MEDICAL PHYSICS) DEGREE EXAMINATION
(Revised Regulations for Candidates admitted from 2010-2011)

FIRST YEAR

Paper VI – PHYSICS OF MEDICAL IMAGING

Q.P. Code : 284016

Time : Three hours

Maximum :100marks

I. Elaborate on:

(2x20=40)

1. (a) Explain the different methods which are used to overcome the limitation of projection radiography?

(b) Draw the primary radiological image and explain the differential attenuation of X-rays in human body.
2. Write the different Quality Assurance tests which are used in evaluate the conventional X-ray Equipments.

II. Write notes on :

(10X6=60)

1. Acoustic Coupling.
2. Grid Ratio
3. Intensifying screens.
4. Modulation Transfer Function.
5. Rotating influencing the radiographic contrast.
6. Quality Assurance in Computed Tomography.
7. MRI.
8. Beryllium Filters.
9. Digital radiography.
10. Automatic Brightness Control.
