

[LM 0518]

MAY 2018

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. Discuss in detail about various types of grids, function and their characteristics.
2. Describe about the various contrast media used in radiography, characteristics and their application.

II. Write notes on:

(10 x 6 = 60)

1. Explain structure of double coated X-ray film.
2. Write about automatic exposure control.
3. Discuss the role of image intensifier tube in fluoroscopy.
4. Write about mammography.
5. Explain about density, contrast, speed, resolution, latitude.
6. Write about MRI safety.
7. Explain about acoustic coupling.
8. Explain the necessity of quality assurance in radiology imaging.
9. Write about beam restrictors.
10. Explain the function of kVp, mAs and SID.
