

[LH 0815]

AUGUST 2015

Sub Code: 1822

**B.Sc. RADIOLOGY IMAGING TECHNOLOGY**

**THIRD YEAR**

**PAPER II – MODERN IMAGING TECHNIQUES AND  
RECENT TRENDS IN IMAGING**

*Q.P. Code: 801822*

**Time : Three Hours**

**Maximum : 100 Marks**

**Answer All questions.**

**I. Elaborate on :**

**(3 x 10 = 30)**

1. Explain about Basic Design and Operating Principles Gamma Camera
2. How will you prepare and perform a patient for CT Guided Biopsy?  
Explain the post procedure care.
3. Describe about How will you prepare a patient and perform scan in PET CT?

**II. Write notes on:**

**(8 x 5 = 40)**

1. Mr. Arthrogram.
2. Diffusion Tensor Imaging.
3. CT guided Radiofrequency Ablation.
4. Radiopharmaceuticals.
5. CT Enteroclysis.
6. Colour Doppler Imaging.
7. Cyclotron.
8. Modern dose Reduction methods in CT Scan imaging.

**III. Short answers on:**

**(10 x 3 = 30)**

1. Iodine 131.
2. Atomic and Nuclear Structure.
3. MR Spectroscopy Applications.
4. Cone Beam CT Scan.
5. Tele-Radiology.
6. PACS.
7. Advantages of Digital Radiography.
8. Uses of Carbon dioxide in Radiology.
9. OPG.
10. Radiology information system (RIS).

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