

**B.Sc. RADIOLOGY IMAGING TECHNOLOGY**  
(New Syllabus 2014-2015)

**THIRD YEAR**

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

*Q.P. Code: 801837*

**Time: Three Hours**

**Maximum: 100 Marks**

**Answer all questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. How will you prepare a patient and perform CT Guided Biopsy?  
Explain the post procedure care.
2. Write briefly about parathyroid scan in nuclear medicine.
3. Discuss in detail the fusion imaging techniques.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Protocol for isotope renal cortical scan.
2. MIBG scan.
3. Delay tank.
4. Diffusion tensor imaging.
5. Nuclear imaging in myocardial perfusion.
6. Low pass and high pass filter.
7. Discuss on how to handle radiopharmaceuticals?
8. Colour doppler imaging.

**III. Short answers on:**

**(10 x 3 = 30)**

1. What is binding energy?
2. Standardised uptake value (SUV).
3. Define hybrid technology.
4. What is MUGA?
5. Define static planar imaging.
6. PACS.
7. Advantages of digital radiography.
8. Uses of carbon dioxide in radiology.
9. OPG.
10. Radiology Information System (RIS).