

[LL 0817]

AUGUST 2017

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 the procedure in preparing a patient and performing scan in PET CT.
2. Write in detail the principle and working of a gamma camera.
3. Explain basic cardiac imaging, planning and myocardial viability study in MRI.

**II. Write notes on:** **(8 x 5 = 40)**

1. Write about CT guided Radiofrequency Ablation.
2. Explain about Nuclear imaging in myocardial perfusion.
3. Write in detail about Radiopharmaceuticals.
4. Explain about NaF18 PET/CT.
5. Explain about Filtered back projection.
6. What is the Automatic Exposure Control System?
7. Write about Dual Source CT Scan.
8. Explain in detail about MIBG scan.

**III. Short answers on:** **(10 x 3 = 30)**

1. Explain about PACS.
2. Write about the Radiology information system (RIS).
3. Explain about DMSA scan.
4. List a few radioactive isotopes.
5. What are the indications for Tc99 bone scan?
6. List the strengths and limitations of MRI.
7. List characteristics of malignant lesions.
8. What are the advantages and limitations of sonomammography procedure?
9. Define Perfusion in Renal Imaging.
10. Write about Contamination monitor.

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