

[LG 0215]

FEBRUARY 2015

Sub.Code :2113

B.Sc. NUCLEAR MEDICINE TECHNOLOGY

SECOND YEAR

PAPER III – NUCLEAR MEDICINE TECHNIQUES AND
SPECIAL PROCEDURES.

Q.P. Code: 802113

Time: Three Hours

Maximum: 100 Marks

Answer All questions

I. Elaborate on:

(3 x 10 = 30)

1. Describe the technique of Multigated Blood pool Acquisition and the steps in processing of images for estimation of ejection fraction of left ventricle.
2. Mention the radionuclide studies for renal transplant evaluation. Describe the technique of renal transplant scintigraphy using Tc99m DTPA.
3. What are the clinical indications for hepatobiliary scintigraphy? Write in detail about the technique of scintigraphy in any one of them.

II. Write Notes on:

(8 x 5 = 40)

1. Diuretic renogram.
2. Three phase bone scintigraphy.
3. Perchlorate discharge test.
4. Gates' method of GFR estimation.
5. Stress myocardial perfusion study.
6. Parathyroid scintigraphy.
7. Precautions to be followed during radioiodine administration.
8. Scintigraphy for localization of gastrointestinal bleed.

III. Short Answers on:

(10 x 3 = 30)

1. Split renal function.
2. Principle of lung perfusion study.
3. Principle of Meckel's diverticulum scintigraphy.
4. Thyroxine after total thyroidectomy in thyroid cancer patients.
5. Vesicoureteric reflux.
6. Nephrostomy.
7. Pyeloplasty.
8. Tracheostomy.
9. Ewing's sarcoma.
10. Radiation synovectomy
 1. Filters in image processing.
 2. Split renal function.
