

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[AHS 0321]

MARCH 2021

Sub. Code: 2308

(OCTOBER 2020 EXAM SESSION)

M.Sc. NUCLEAR MEDICINE TECHNOLOGY

FIRST YEAR (From 2019-2020 onwards)

PAPER VIII – CLINICAL NUCLEAR MEDICINE TECHNIQUES I

Q.P. Code : 282308

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate notes on:

(2 x 20 = 40)

1. What are the radionuclide studies for renal transplant evaluation. Describe the technique of renal transplant scintigraphy using Tc^{99m} DTPA.
2. What are the clinical indications for hepatobiliary scintigraphy? Write in detail the technique of scintigraphy in any one of them.

II. Write Short Notes on:

(10x6 = 60)

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.
9. Radionuclide ventriculography.
10. Patient preparation for 18F-FDG PET – CT study.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[AHS 0222]

**FEBRUARY 2022
(OCTOBER 2021 EXAM SESSION)**

Sub. Code: 2308

**M.Sc. NUCLEAR MEDICINE TECHNOLOGY
FIRST YEAR**

(Candidates admitted from 2019-2020 onwards – Paper VIII)

(Candidates admitted from 2020-2021 onwards – Paper IX)

PAPER VIII & IX – CLINICAL NUCLEAR MEDICINE TECHNIQUES I

Q.P. Code : 282308

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate notes on: (2 x 20 = 40)

1. What are the clinical indications for hepatobiliary scintigraphy? Write in detail the technique of scintigraphy in any one of them.
2. Describe the technique of Multigated Blood pool Acquisition and the steps in processing of images for estimation of ejection fraction of left ventricle.

II. Write Short Notes on: (10x6 = 60)

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.
