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

**[AHS 0122]** **JANUARY 2022** **Sub. Code: 2312**
**(OCTOBER 2021 EXAM SESSION)**

**M.Sc. NUCLEAR MEDICINE TECHNOLOGY**
**SECOND YEAR (From 2019-2020 onwards)**
**PAPER II – CLINICAL NUCLEAR MEDICINE TECHNIQUES - II**
***Q.P. Code : 282312***

**Time: Three hours** **Answer ALL Questions** **Maximum: 100 Marks**

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

1. Pre & Post ACEI Renogram.
2. Cardiac Imaging Using $Tc^{99m}$.

**II. Write notes on:** **(10 x 6 = 60)**

1. Thyroid uptake study.
2. Muga study.
3. Lung ventilation study.
4. Difference between G-I Bleed & Meckel's Diverticulum study.
5. $Tc^{99m}$ labeled heat damaged RBC study.
6. Quantitative Bone Scintigraphy.
7. Cisternography.
8. Parathyroid Scintigraphy.
9. Gall Bladder Scintigraphy using IDA compounds.
10. DMSA Rena Cortical imaging.

******

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

**[AHS 1022]** **OCTOBER 2022** **Sub. Code: 2312**

**M.Sc. NUCLEAR MEDICINE TECHNOLOGY**
**SECOND YEAR**
**(Candidates admitted from 2019-2020 & 2020-2021 onwards)**
**PAPER II – CLINICAL NUCLEAR MEDICINE TECGNIQUES - II**
***Q. P. Code: 282312***

**Time: Three hours** **Maximum : 100 Marks**

**Answer ALL Questions**

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

1. Diuretic renogram.

2. Bone Scintigraphy.

**II. Write notes on:** **(10 x 6 = 60)**

1. DMSA Scan.
2. 3 phase Bone Scan.
3. GFR study.
4. Meckel Scan.
5. Salivary gland Scintigraphy.
6. Lung Perfusion Scan.
7. MUGA.
8. ECD Brain Scan.
9. Technetium Thyroid Scan.
10. $^{131}$I-Scan.

*****

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

**[AHS 1023]** **OCTOBER 2023** **Sub. Code: 2312**

**M.Sc. NUCLEAR MEDICINE TECHNOLOGY**
**SECOND YEAR (From 2020-2021 onwards)**
**PAPER II – CLINICAL NUCLEAR MEDICINE TECGNIQUES – II**

***Q. P. Code: 282312***

**Time: Three hours** **Maximum: 100 Marks**

**Answer ALL Questions**

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

1. Describe I-131 high dose therapy indications, pre and post therapy instructions to patients.

2. Describe F-18 FDG PET CT imaging, indications and procedure for oncology imaging. Explain about cardiac viability preparation for FDG.

**II. Write notes on:** **(10 x 6 = 60)**

1. Explain Ga-68 DOTANOC imaging and indications.
2. Explain Ga-68 PSMA preparation.
3. TRODAT SPECT CT indications.
4. Explain parathyroid scintigraphy.
5. Explain lacrimal scintigraphy.
6. Explain gastric emptying scintigraphy.
7. Explain DMSA imaging.
8. Explain WBC imaging.
9. Explain 3-phase bone scintigraphy with indications.
10. Explain DTPA – GFR plasma clearance study.

*****