

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

[AHS 0222]

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

Sub. Code: 2303

**M.Sc. NUCLEAR MEDICINE TECHNOLOGY
FIRST YEAR
(Candidates admitted from 2019-2020 onwards – Paper III)
(Candidates admitted from 2020-2021 onwards – Paper IV)
PAPER III & IV – MATHEMATICS AND STATISTIC
*Q.P. Code : 282303***

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

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

1. Describe the uses of student-t-tests with examples.
2. a) What is the medical decision making and principle of receiver operating Characteristic (ROC)?
b) Explain in detail about types of data with example.

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

1. Explain about normal distribution with example.
2. What are most commonly used continuous functions in nuclear medicine?
3. What are the methods used to describe dispersion of data.
4. Explain the concept of correlation with example.
5. Explain coordinate system and its types.
6. Explain Mann Whitney U test.
7. Explain Chi-square test.
8. Explain Mean, Median and Mode with example.
9. Methods of least square fitting.
10. Explain parametric functions.
