

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

[AHS 0424]

APRIL 2024

Sub. Code: 2604

B.Sc. RESPIRATORY THERAPY
FIRST YEAR (Regulations 2014-2015 & 2018-2019 onwards)
PAPER IV – BIO STATISTICS & PHYSICS
Q.P. Code: 802604

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. Discuss presentation of data with appropriate scales of measurement.
2. Explain the importance of diffusion.
3. Calculate rank correlation coefficient from the following data:

x	78	89	97	69	59	79	68
y	125	137	156	112	107	136	124

II. Write Notes on:

(8 x 5 = 40)

1. Measures of Central Tendency.
2. Distinguish between Parametric and Non-Parametric tests.
3. Discuss about Lung Volume Measurements.
4. Standard deviation and its coefficient.
5. Steps in Hypothesis Testing.
6. Characteristics of Normal Curve.
7. Different patterns of liquid flow.
8. Three important Gas Laws.

III. Short Answers on:

(10 x 3 = 30)

1. Discuss states of Matter.
2. Limitations of statistics.
3. Graphical Data Presentation.
4. Power of the test.
5. Level of significance.
6. Percentiles.
7. Oxygenation.
8. Assumptions of ANOVA.
9. Need for sample.
10. Mean Deviation.
