

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

[AHS 1023]

OCTOBER 2023

Sub. Code: 1902

**M.Sc. PUBLIC HEALTH
FIRST YEAR (From 2017-2018 onwards)
PAPER II – PRINCIPLES OF BIO-STATISTICS**

Q.P. Code: 281902

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Explain in detail about Kaplan Meier Analysis and how to interpret it?
2. Define Validity. What are the different types of validity? How will you validate a questionnaire or instrument in medical research?

II. Write notes on:

(10 x 6 = 60)

1. Difference between standard deviation and standard error.
2. Explain in detail about Binomial distribution.
3. Correlation coefficient.
4. Explain in detail about systematic random sampling.
5. Tools for measuring validity of screening test.
6. Mann Whitney U test application and interpretation.
7. What is a variable? What are the different types of variables?
8. Statistical applications and its usage in medical research.
9. What is hypothesis statement? Explain about different types of hypothesis.
10. Calculate the measures of central tendency and dispersion for the following data of 5 student's weight 15,20,30,25,15.
