

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

[PHARMD 1122]

**NOVEMBER 2022
(OCTOBER 2022 EXAM SESSION)**

Sub. Code: 3822

**PHARM 'D' AND PHARM. 'D' (POST BACCALAUREATE) DEGREE
EXAMINATION
FOURTH YEAR
PAPER IV – BIOSTATISTICS & RESEARCH METHODOLOGY
*Q.P. Code : 383822***

Time : Three hours

Maximum : 70 Marks

I. Elaborate on:

(4 x 10 = 40)

1. Explain Correlation and Regression.
2. Discuss the protocol in Designing the Research Methodology.
3. a) Explain Null hypothesis and Alternative hypothesis.
b) Write the steps involved in calculation of ANOVA.
4. Discuss the role of computers in
 - a) Patient record database management.
 - b) Medication order entry.

II. Write notes on:

(6 x 5 = 30)

1. Describe Histogram and pie chart.
2. Write the steps involved in calculation of chi-square test.
3. Write the factors influencing sample size determination.
4. Explain the difference between Incidence and Prevalence.
5. Write a note on cross-sectional studies.
6. Measures describing central tendency distributions.
