

**VINAYAKA MISSION'S RESEARCH FOUNDATIONS**  
**(Deemed to be University) , SALEM**

**Pharm.D/ Pharm.D (POST BACCALAUREATE) DEGREE**  
**EXAMINATION - September 2021**  
**Fourth Year**

**BIOSTATICS AND RESEARCH METHODOLOGY**

Time: Three hours

Maximum: 70 marks

I. Write essays on any **TWO** questions: (2 x15 = 30)

1. Write in detail data interpretation and result analysis in research studies.
2. Elaborate on linear regression analysis with examples.
3. Explain computer application in clinical research studies.

II. Write short answers on any **SIX** questions: (6 x 5 = 30)

4. Retrospective studies.
5. Types of error.
6. Standard deviation.
7. Wilcoxon rank sum test.
8. Chi square test.
9. Relative risk.
10. Odds ratio.
11. Write short note types of charts.

III. Write short notes on any **FIVE** question: (5 x 2 = 10)

12. Define median.
13. Types of data.
14. Cohort.
15. Sample size.
16. Epi info.
17. Correlation.

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