

**VINAYAKA MISSION'S RESEARCH FOUNDATION  
(DEEMED TO BE UNIVERSITY), SALEM**

**B.PHARM. DEGREE EXAMINATION – July 2021  
Eighth Semester**

**BIOSTATISTICS AND RESEARCH METHODOLOGY**

Time : Three hours

Maximum: 75 marks

I. Write essays on any **TWO** questions: (2 x 10 = 20)

1. Explain in detail measure of central tendency with examples.
2. Explain in detail correlation analysis with examples.
3. Explain in detail parametric and nonparametric data distribution with examples.

II. Write short answers on any **SEVEN** questions: (7 x 5 = 35)

4. Correlation analysis.
5. ANOVA.
6. Wilcoxon Rank Sum Test.
7. Mann - Whitney U test.
8. Null hypothesis.
9. Case control study.
10. Advantages of factorial design.
11. Various phases of clinical trails.
12. Plagiarism and types.

III. Write short notes on : (10 x 2 = 20)

13. T Test.
14. Cohort.
15. Alpha error.
16. Sample size.
17. Power of study.
18. Research design.
19. Statistical errors.
20. Data.
21. Standard deviation.
22. Range.

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