Sl.No:M21225 Course Code: BP801T

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

B.PHARM. DEGREE EXAMINATION – October 2021 Eighth Semester

BIOSTATISTICS AND RESEARCH METHODOLOGY

Time: Three hours

Maximum: 75 marks

I. Write essays on any **TWO** questions:

 $(2 \times 10 = 20)$

- 1. Explain in detail frequency distribution with examples.
- 2. Explain in detail student t test with examples.
- 3. Explain in detail hypothesis testing with examples.
- II. Write short answers on any **SEVEN** questions:

 $(7 \times 5 = 35)$

- 4. Regression analysis.
- 5. Chi square test.
- 6. Wilcoxon Rank Sum Test.
- 7. Mann Whitney U test.
- 8. Sample size calculation.
- 9. Prospective study.
- 10. Factorial design.
- 11. Kruskal-Wallis test.
- 12. Errors and types.

III. Write short notes on:

 $(10 \times 2 = 20)$

- 13. Standard deviation.
- 14. Randomization.
- 15. Beta error.
- 16. ANOVA.
- 17. Sampling methods.
- 18. Variants.
- 19. SPSS.
- 20. P Value.
- 21. Standard error mean.
- 22. Confidence interval.
