

**VINAYAKA MISSION'S RESEARCH FOUNDATION, SALEM**

**M.D. (HOMOEOPATHY) DEGREE EXAMINATION – April 2019**

**PART I**

**(Common to All Branches)**

**RESEARCH METHODOLOGY AND BIO STATISTICS**

Time: Three hours

Maximum: 100 marks

(Answer **ALL** questions)

**SECTION-A**

I. Write Essays : (2 x 10 = 20)

1. Classify different types of clinical research with example for each.
2. Discuss in detail about the pros and cons of RCT in Homoeopathy.

II. Write short notes on : (3 x 5 = 15)

3. What is data and what are the types of Data.
4. Bar diagrams
5. Histogram.

III. Write short notes on : (3 x 5 = 15)

6. Types of Blinding in RCT
7. Human pathogenic Trials.
8. Phases of clinical trials.

**SECTION-B**

I. Write essays: (2 x 10 = 20)

9. Define Mean, Median and give examples.
10. Write about Chi-square test and application of it in statistical analysis.

II. Write short notes on : (3 x 5 = 15)

11. Define sample size and how do you calculate.
12. Regression
13. Confidence interval

III. Write short notes on : (3 x 5 = 15)

14. Paired t-Test
15. Simple Random Sampling
16. Control treatment.