

QP CODE: 105388

Reg. No:.....

First Year Master of Optometry Degree Examinations October 2018

Research Methodology and Biostatistics

Time: 3 Hours

Total Marks: 80

- **Answer all Questions.**
- **Draw Diagrams wherever necessary.**

Essay

(20)

1. Classify various sampling designs. Explain the various random sampling designs with appropriate examples.

Short Essays

(6x10=60)

2. What is standard deviation and mention its uses. Explain the steps used in the computation of standard deviation.
3. Explain the concepts of null hypothesis and alternate hypothesis with suitable examples.
4. Narrate the steps in the conduct of a case-control study. Differentiate case-control study from cohort study.
5. Explain T - Test
6. Analysis of variance (ANOVA)
7. What is non parametric test. when is it used. Explain the different non parametric tests
