

Q.P. Code: 404326

Reg. no.:

**Fourth Year Pharm D Degree Supplementary Examinations
January 2018**

Biostatistics & Research Methodology

Time: 3 Hours

Total Marks: 70

- Answer all questions
- Draw diagrams wherever necessary

Essay:

(3x10=30)

1. Define epidemiology. Explain in detail various study designs used in epidemiology.
2. Define sampling. Discuss the various sampling methods with appropriate pharmacy examples.
3. How non-parametric data are analyzed. Explain any one statistical method to analyze non-parametric data

Short notes:

(8x5=40)

4. How mean, mode and median are calculated
5. How patient medication profile is recorded in pharmacy. State its importance.
6. What is student 't' test. How it is calculated.
7. Explain case control studies.
8. Explain the various types of graphs.
9. Explain the statistical software of SPSS and epi info.
10. Explain central tendency.
11. Report writing
