

Q.P. Code: 404326

Reg. no.:

Fourth Year Pharm D Degree Supplementary Examinations, February 2015

Biostatistics & Research Methodology

Time: 3 Hours

Total Marks: 70

- Answer all questions
- Draw diagrams wherever necessary

Essay:

(3x10=30)

1. Explain central tendency and dispersion. Define and compare the characteristics of mean, median, mode, variance, standard deviation (SD) and standard error of mean (SEM).
2. Discuss the design and methodology of cohort studies.
3. Discuss sample size determination in detail

Short notes:

(8x5=40)

4. Explain the methodology of Pearson's Chi square test with a suitable example.
5. Applications of SPSS & Epi info software in biomedical research.
6. Explain the methodology of paired t-test with a suitable example.
7. Define correlation and mention the methodology of Spearman's correlation.
8. Discuss the methodology of case control studies.
9. Explain graphical representation of data using histograms and Pie-charts.
10. Define hypothesis and mention the hypothesis testing.
11. Explain the methodology of Wilcoxon signed rank test with the help of a suitable example
