

**Q.P. Code: 404326**

**Reg. no.:** .....

Fourth Year Pharm D Degree Supplementary Examinations, February 2016

**Biostatistics & Research Methodology**

**Time: 3 Hours**

**Total Marks: 70**

- Answer all questions
- Draw diagrams wherever necessary

**Essay:**

**(3x10=30)**

1. Classify different types of epidemiological study design. Explain the cross-sectional study.
2. Explain correlation and regression. Describe the methodology of pearson product-moment correlation.
3. Explain the role of computers in pharmaceutical care and prescription dispensing process.

**Short notes:**

**(8x5=40)**

4. Report writing and presentation of data.
5. Explain the steps involved in calculation of paired t-test
6. Coefficient of variation and standard error of mean.
7. Scatter plots.
8. Explain advantages and disadvantages of case control study.
9. Confidence interval and p value.
10. Explain the odd ratio and its significance with suitable examples.
11. Explain the importance of sample size calculation.

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