Q.P. Code: 404326

Reg. no.:

Fourth Year Pharm D Degree Supplementary Examinations March 2022

Biostatistics & Research Methodology

Time: 3 Hours

- Answer all questions to the point neatly and legibly Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space
- Answer all parts of a single question together Leave sufficient space between answers
- Draw table/diagrams/flow charts wherever necessary •

Essay:

- 1. How will you classify experimental study. Describe the steps in conducting randomized controlled trial.
- 2. Explain the various types of data distributions. Describe in detail about Poisson distribution.
- 3. Epidemiological studies are limited to a sample of individuals from a population. Justify and explain about the key techniques used to assess the range of values within which the actual population estimate is likely to lie.

Short notes:

- 4. Explain different measures of central tendency with suitable examples.
- 5. Explain Type I and Type II error and how to minimize the errors.
- 6. Explain the power of study and confidence interval in statistics.
- 7. Explain about hypothesis and its testing.
- 8. Compare and contrast one-way anova and two-way anova.
- 9. Explain about multiple linear regression with suitable examples.
- 10. Explain how computer-based system is useful in intravenous solutions and admixture.
- 11. Discuss about epi info statistical software and its applications.

(8x5=40)

Total Marks: 70

(3x10=30)