

**Q.P. Code: 404326**

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

**Fourth Year Pharm D Degree Regular/Supplementary Examinations  
January 2021**

**Biostatistics & Research Methodology**

**Time: 3 Hours**

**Total Marks: 70**

- *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:**

**(3x10=30)**

1. Classify types of data distribution and explain different measures of central tendency with suitable examples
2. Describe the various parametric tests used to determine level of significance of a clinical trial.
3. Explain the computer applications in hospital pharmacy and drug information system.

**Short notes:**

**(8x5=40)**

4. State the limitations of case studies.
5. Steps in report writing.
6. Differentiate incidence and prevalence with example.
7. Binomial distribution.
8. Statistical software.
9. The importance of relative measures of variation over standard deviation with an illustration.
10. Relationship between sample size and power of the test.
11. Explain relative and attributed risk.

\*\*\*\*\*