

**Q.P. Code: 404326**

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

**Fourth Year Pharm D Degree Regular/Supplementary Examinations  
June 2023**

**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. Describe the various parametric tests used to determine level of significance of a clinical trial.
2. Explain research design, components of research design and its advantages.
3. Explain the role of computers in inventory control of pharmacy and patient record database management.

**Short notes:**

**(8x5=40)**

4. Describe the applications of statistical software SPSS and SAS in biostatistics.
5. Explain about any two types of data distribution.
6. Explain the basic idea about correlation and regression analysis.
7. List out various methods of the presentation of statistical data.
8. Explain about statistical power and its significance.
9. Compare and contrast Scatter plot vs Semilogarithmic plots.
10. Explain the role of computer in general ledger system.
11. Write a note on report writing.

\*\*\*\*\*