

**Q.P. Code: 404326**

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

**Fourth Year Pharm D Degree Regular/Supplementary Examinations  
August 2024**

**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 important sections of thesis or research report.
2. Explain the calculation and applications of various descriptive statistics.
3. Explain the methodology, advantages and disadvantages of case-control studies.

**Short notes:**

**(8x5=40)**

4. Cross-sectional studies.
5. Applications of computers in community pharmacy.
6. Coefficient of variation and Standard error of mean.
7. Pie chart and bar graphs.
8. Types of data distribution.
9. Case reports and case series.
10. Applications of Epi Info and SAS software in research.
11. Chi-square test and its application.

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