

QP Code: 821006

Reg. No.....

**Eighth Semester B. Pharm Degree Supplementary Examinations  
December 2023**

**Biostatistics and Research Methodology**

**(2017 Scheme)**

**Time: 3 Hours**

**Max. Marks: 75**

- *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 diagrams wherever necessary*

**Essays**

**(2x10=20)**

1. Explain various types of parametric and non-parametric tests used in hypothesis testing.
2. List the advantages of representing data in graphical form. Convert the data presented in the following table to graphical form

Patient age range who reports with eye problem	10-20 years	20-30 years	30-40 years	40-50 years	50-60 years	Above 60 years
Percentage	10	10	25	30	15	10

(5+5)

**Short Notes**

**(7x5=35)**

3. What are basic concepts in writing a research paper.
4. Explain the procedure involved in testing of hypothesis.
5. Explain normal distributions with examples.
6. Discuss the significance of literature review in research.
7. What are the criteria for good research.
8. What are the difference between research methods and methodology.
9. Significance of research in pharmaceutical sciences.

**Answer Briefly**

**(10x2=20)**

10. Define dropouts.
11. Classify the types of data distribution.
12. Define plagiarism.
13. Type II errors in research.
14. Define intervention studies.
15. Probability sampling.
16. Odds ratio.
17. Define mode.
18. Define bibliography.
19. Write the different sources for literature review.

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