

QP Code: 821006

Reg. No.....

**Eighth Semester B. Pharm Degree Supplementary Examinations
October 2025**

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. Define and classify research. What is research ethics. Write the roles of institutional review boards (5+2+3)
2. Describe the various types of data distribution. Add a note on significance in designing the questionnaires (5+5)

Short Notes

(7x5=35)

3. Write a short note on controlled clinical trials
4. Explain methods to measure Central Tendency
5. Define Hypothesis and classify
6. Write the importance of statistics in pharmacy
7. Write characteristics of a good research
8. How to collect the data for the observational studies
9. Define 'Sample' and 'Variables' with suitable examples

Answer Briefly

(10x2=20)

10. Define 'Research problem'
11. Draw the pie chart for the following data

Food	Carbohydrate	Protein	Fat
Level of intake (%)	60	30	10

12. What is an interventional study
13. Define 'Subject' in research
14. What are the various tests used to test hypothesis
15. Define inferential statistics
16. Differences between 'Statistics' and 'Biostatistics'
17. How to decide the sample size
18. What is bias
19. Write source for literature review
