

QP Code: 821006

Reg. No.....

**Eighth Semester B. Pharm Degree Regular/Supplementary
Examinations March 2026
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 the randomized controlled trials and descriptive studies with suitable examples
2. a) Give a brief account on the importance of Research question and Hypothesis.
b) Descriptive and Inferential statistics (3+7)

Short Notes

(7x5=35)

3. Informed consent process
4. Validity and Reliability
5. One way and two-way ANOVA tests
6. Importance of Review of literature
7. Format for Research Protocol
8. Types and salient aspects of Epidemiological study designs
9. Types of Data distribution

Answer Briefly

(10x2=20)

10. Discuss about standard deviation and its importance
11. What is meant by Research gap
12. What are the criteria for Inclusion and Exclusion
13. What is meant by Impact factor
14. Give an account on Pie charts
15. Explain Scatter plots
16. Where will be Wilcoxon signed-rank test used
17. Suppose that you have the following set of numbers: 9, 2, 5, 3, 6, 7, 5, 4
Compute the value of the mean
18. How can we avoid confounding variables in research
19. Give an account on the optimal Sample size determination
