

QP Code: 821006

Reg. No.....

**Eighth Semester B. Pharm Degree Regular/Supplementary
Examinations July 2024
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 research and explain various types of research. List down criteria of good research.
2. Define data. Differentiate primary and secondary data. Explain the methods employed for data collection in research. (2+2+6)

Short Notes

(7x5=35)

3. Describe the format for a research protocol.
4. Explain the statistical significance of P value.
5. Publication ethics.
6. Methods for presentation of data.
7. Explain epidemiology. Write note on epidemiology study design.
8. Measures used in epidemiology.
9. Steps involved in testing hypothesis using student's t test.

Answer Briefly

(10x2=20)

10. Difference between type I and II errors.
11. Define impact factor.
12. Components of thesis.
13. Members in the institutional review boards.
14. Define null hypothesis with example.
15. Write the components in questionnaires.
16. Define cross over study.
17. Define randomized clinical trials.
18. Non-parametric tests.
19. What are measures of central tendency.
