

QP Code: 821006

Reg. No.....

**Eighth Semester B. Pharm Degree Regular/Supplementary
Examinations July 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. Define research and explain various types of research. Outline the overall steps in research process.
2. Describe hypothesis testing in research. Explain how computers and softwares are helpful in statistical analysis.

Short Notes

(7x5=35)

3. Components of a thesis.
4. Write the various sources of primary and secondary data.
5. What are measures of association.
6. Format for research protocol.
7. Explain the probability sampling methods.
8. Enlist screening designs. What is two-level factorial design. What are the advantages of factorial design
9. Describe TWO parametric tests used in context of testing hypothesis.

Answer Briefly

(10x2=20)

10. List out four unethical practices in research.
11. Write the meaning of questionnaire.
12. List out methods of data collection.
13. Observational study.
14. Write the advantages and disadvantages of cohort study.
15. Validity and reliability of instrument.
16. Explain case-control study. Give an example of case-control study.
17. Write the relationship between sample size and power of the test.
18. Non-probability sampling methods. Enlist four methods.
19. Define hypothesis. Write their types with suitable examples.
