

# 2019 Scheme

QP CODE: 321332

Reg. No:.....

**Third Semester M. Pharm Degree Regular/Supplementary Examinations  
April 2024**

**Paper I: Research Methodology & Biostatistics (MRM 301T)**

**(Common for all branches)**

**Time: 3 Hours**

**Total 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 table/diagrams/flow charts wherever necessary*

**Essays**

**(3x10=30)**

1. Explain in detail about the different types of study design employed in research methodology.
2. What is meant by homogenous data. Name the statistical methods used to analyse homogeneous data. Explain ANOVA method of statistical analysis.
3. • Discuss about components of Informed consent.  
• Randomization in research methodology.

**Short Notes**

**(9x5=45)**

4. Briefly explain different methods for research reporting.
5. Student t test with suitable example and its advantages.
6. Brief note on cross over design.
7. Guidelines to conduct a good literature review.
8. Discuss the constitution and working of IAEC.
9. Sample size determination.
10. Application and steps involved in Chi square test.
11. Structure of thesis writing.
12. Write about conflict between autonomy and beneficence.

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