

# **2019 Scheme**

**QP CODE: 321332**

**Reg. No:.....**

**Third Semester M. Pharm Degree Regular Examinations March 2021**

**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 different types of graphical presentation of data with suitable diagrams.
2. Discuss the CPCSEA guidelines for laboratory animal facility.
3. Discuss parametric and non-parametric test.

## **Short Notes**

**(9x5=45)**

4. Types of data and data collection techniques.
5. Research methodology.
6. Explain randomization in research.
7. Blinding techniques and significance of placebos in research.
8. Measures of central tendency.
9. Autonomy of medical research.
10. Ethical issues in Research.
11. Relevance of sampling and sample size determination.
12. Linear regression and correlation.

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