Q.P. Code: 404326 Reg. no.:

Fourth Year Pharm D Degree Regular/Supplementary Examinations November 2021

Biostatistics & Research Methodology

Time: 3 Hours Total Marks: 70

- 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

Essay: (3x10=30)

- 1. Explain the different type of graphical representation of data with suitable diagrams.
- 2. Classify epidemiological studies and explain the methodology of case-control study.
- 3. Classify ANOVA tests with examples and describe the general steps involved in the calculation of one-way ANOVA.

Short notes: (8x5=40)

- 4. Sample size determination.
- 5. Non-parametric tests.
- 6. Cross-sectional studies.
- 7. Applications and steps involved in the calculation of paired t-test.
- 8. Define incidence, prevalence, odds ratio, relative risk and attributable risk.
- 9. What is correlation and describe the methodology of Spearman's correlation.
- 10. Explain the different measures of spread or dispersion.
- 11. Explain the application of computers in drug information retrieval.
