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M. Pharmacy 3rd Semester Examination

Research Methodology & Statistics

MP-030

Time : 3 Hours   Max. Marks : 90

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

PART - A

Attempt any ONE question of the following:

1. Enumerate the different methods of data collection. Which one is the most appropriate method for conducting family welfare programme in India?

2. (a) What is chi-square test? Describe its significance in statistical analysis.

    (b) Describe hypothesis and composite hypothesis.   **(25)**

PART - B

Attempt any THREE questions of the following:

3. Distinguish between the following:

    (a) Null hypothesis and alternative hypothesis.

    (b) One-tailed test and two-tailed test.

4. Describe the statistical software of Graphpad with significance.

5. Give mathematical equation of Linear regression and correlation.

6. Give various aspects of posters presentation and precautions.
                                                   (10×3=30)

PART - C

Attempt any SEVEN questions of the following:

7. (a) Describe internet as a source of literature survey

   (b) How to write reference of dissertation? Explain with example.

   (c) What is citing reference? Explain with example.

   (d) Distinguish between confidence level and significance level

   (e) Distinguish between Random sampling and non-random sampling

   (f) Describe with example sampling error

   (g) Write an exhaustive note on Wilcoxon rank sum test

   (h) What is ANOVA? Explain basic principle of ANOVA.

   (i) Describe application of statistical software SPSS.

   (5×7=35)