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B PHARM (SEM VIII) THEORY EXAMINATION 2022-23 BIOSTATISTICS AND RESEARCH METHODOLOGY

Time: 3 Hours Total Marks: 75

Note: Attempt all Sections.

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SECTION A

1. Attempt *all* questions in brief.

 $10 \times 2 = 20$

- a. Null hypothesis.
- b. Define Karl Pearson's coefficient of correlation.
- c. Confidence interval.
- d. Write the applications of nonparametric tests.
- e. Define degrees of freedom.
- f. Define one-tailed and two-tailed tests. https://pharmacyindia.co.in/
- g. What is Plagiarism?
- h. Define the Power of a study.
- i. Standard error of the mean and its significance?
- j. Report writing in the research study.

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SECTION B

2. Attempt any two parts of the following:

 $2 \times 10 = 20$

- a. Definehypothesis? What are the different types of hypothesis? Explain how you will formulate
 a hypothesis with a suitable example.

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- b. Explain the types and advantages of factorial design in formulation development.
- c. Describe the different measures of central tendency. Calculate the mean and standard deviation for the given data on the mid-arm circumference(cm) of 16 children –14, 12, 13, 10, 11, 13, 14, 12, 11, 10, 13, 12, 11, 10, 14

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SECTION C

3. Attempt any *five* parts of the following:

 $7 \times 5 = 35$

a. Classify different types of data; explain any three measures of dispersion with examples.

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- b. Discuss the hypothesis testing of parametric data.
- c. Explain types of correlation and correlation coefficient. Give suitable examples.
- d. Explain ANOVA and write its applications.
- e. Define Plagiarism in Research? How to remove Plagiarism in a Research Paper?
- f. What are non-parametric tests? Explain the chi-square test-Goodness of fit test.
- g. Discuss the applications of EXCEL and SPSS programs in statistical analysis.