



Roll No.
Signature of Invigilator

Paper Code
MS-CT-205

पतंजलि विश्वविद्यालय
University of Patanjali
Reappear Examination May-June-2023

M.Sc. Yoga Science, Semester-II
Yoga Science; Paper : Fifth
Research Methodology Statistics

Time: 3 Hours

Max. Marks: 70

Note: This paper is of seventy (70) marks divided into two (02) sections A, and B. Attempt the questions contained in these sections according to the detailed instructions given therein.

Section - A

(Long Answer Type Questions)

Note: Section 'A' contains five (05) long-answer-type questions of fifteen (15) marks each. Attempt any **three** questions. (3×15=45)

1. What is Research Methodology? Define applied research in details.
2. What is Random Sampling? Explain it with examples.
3. What is Confounding variable? How does it impact on research design? Give method for good research design.
4. Explain Chi-Square Test and t-test.
5. Explain types of estimates and Errors.

Section - B

(Short Answer Type Questions)

Note: Section 'B' contains Seven (07) short-answer-type questions of five (05) marks each. Attempt any **five** (05) questions. (5×5=25)

6. Define the scale of measurement. Write advantages of ratio scale.
7. Differentiate between randomized controlled trial and cross sectional design.
8. What is selection bias and Recall bias.
9. Define types of Hypothesis.
10. Define statistics and parameter.
11. Define Parametric and non-parametric tests.
12. Explain ANOVA.

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