

Name of the Course
Semester
Name of the Paper

Roll No.....
: Master of Physical Education
: II (May/June 2025)
: MPE-0801: Research Process and Statistical
Techniques in Physical Education

Duration: 03 Hours

Max. Marks - 75

Note: Attempt any five questions. All questions carry equal marks.

- Q. 1. Define experimental research control. Explain characteristics of experimental research. 15
- Q. 2. Enlist various design of experimental research. Explain any two in detail. 15
- Q. 3. Enlist the areas of research in Physical Education. Explain in detail physiological research with suitable example. 15
- Q. 4. Explain in detail writing of synopsis with example in physical education. 15
- Q. 5. Define Skewness and Kurtosis graph. Write characteristics of kurtosis type of data. 15
- Q. 6. Define comparative statistics. Explain in detail paired 't' and 'F' tests. 15
- Q. 7. Test the null hypothesis with the independent 't' test on the given data of a test and interpret the result. Each groups consist of 10 data score and tabulated 't' value is 1.73 on 0.05 level of significance. The data of ten students horizontally placed as under-

Student Number	1	2	3	4	5	6	7	8	9	10
Group - I Data Score	57	49	56	68	60	66	44	45	50	55
Group - II Data Score	50	54	48	64	48	35	38	40	56	44

- Q. 8. Write short notes on any two of the following-

- Bibliography.
- Research on bio-mechanical field.
- Factorial design research.

7.5+7.5 = 15
