

Roll No.....

Time of the Course : Master of Physical Education
Semester : I (December 2025)
Name of the Paper : MPE-0701 Research Process and Statistical Techniques in
Physical Education
Duration : 03 Hours
Maximum Marks : 75

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

- Q.1. What is a research problem? Discuss the main criteria for selecting a research problems in Physical Education with suitable examples. (15)
- Q.2. Explain the need and importance of reviewing related literature. Describe different sources of literature used in Physical Education research. (15)
- Q.3. What do you understand by historical research? Explain its nature, scope, and sources of historical materials with examples from Physical Education. (15)
- Q.4. Define Statistics. Explain the need of statistics in Physical Education in detail. (15)
- Q.5. What are measures of central tendency? Calculate the median from the following data: (15)

Class Interval	Frequency
20-24	6
25-29	10
30-34	14
35-39	24
40-44	20
45-49	16
50-54	10

- Q.6. Define measures of variability. Calculate the Standard Deviation from the above scores: (15)
- Q.7. What is non-parametric statistics? Compute Rank Order Correlation between the following variables: (15)

Student	Speed Test (sec)	Agility Test (sec)
A	12.4	13.1
B	11.7	11.3
C	13.2	14.0
D	10.9	11.0
E	12.7	12.9
F	11.5	12.0
G	10.9	12.4
H	11.8	11.3

- Q.8. Calculate Chi-square from following scores: (15)
- | | | |
|----|----|----|
| 30 | 48 | 59 |
| 32 | 61 | 48 |
| 28 | 32 | 57 |