

25MP11

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Name :

Reg. No :

FIRST SEMESTER M.P.E.S. DEGREE EXAMINATION, NOVEMBER 2025

CC25PSPEMIC1901 – RESEARCH METHODOLOGY AND STATISTICS

(2025 Admission – Regular)

Time: 3.00 Hours

Maximum: 75 Marks

Credit : 4

Part A

Answer any *three* questions. Each question carries 15 marks.

1. Explain the need and importance of research in Physical Education with suitable examples.
2. Describe the various types of research and discuss the significance of the interdisciplinary approach.
3. Calculate the Mean, Median and Mode for the following data.

Marks	0.5-5.5	5.5-10.5	10.5-15.5	15.5-20.5	20.5-25.5	25.5-30.5	30.5-35.5	35.5-40.5	40.5-45.5
Frequency	7	10	16	30	24	17	10	5	1

4. Describe the tools of survey research. Explain the merits and limitations of questionnaires and interviews.
5. Discuss the different types of sampling with suitable examples.
6. Explain the different types of statistics and their application in physical education.

(3 × 15 = 45 Marks)

Part B

Answer any *four* questions. Each question carries 5 marks.

7. Define hypothesis. Write the characteristics of a good hypothesis.
8. Differentiate between Z-score and T-score.
9. Write a short note on historical criticism.
10. Explain Type-I and Type-II errors.
11. State the uses of correlation in Physical Education research.
12. Explain the concept of sampling error.

(4 × 5 = 20 Marks)

Part C (Short notes)

Answer any *five* questions. Each question carries 2 marks.

13. Philosophical research.
14. Library sources.
15. Kurtosis.
16. Control group.

17. Degrees of freedom.
18. Case study.
19. Coefficient of variation.
20. SPSS

(5 × 2 = 10 Marks)
