

**Pre. Ph.D. Course Work (2017 Course) SUPPLEMENTARY :**  
**(Physical Education) : JUNE - 2019**  
**SUBJECT : PAPER – I RESEARCH METHODOLOGY/PHYSICAL EDUCATION**

Day : Wednesday  
Date : 26/06/2019

Time : 10.00 AM TO 1.00 PM  
Max. Marks : 100

**S-2019-5393**

**N.B.**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.

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**Q.1** What is quantitative research? Explain phenomenological research with example. Describe any one true experimental research design with example from physical education. (20)

**OR**

What is qualitative research? Describe different types of experimental researches.

**Q.2** Discuss meaning, need and scope of research with reference to physical education and sports. (20)

**OR**

What is aim of research? Explain different types of research in physical education and sports.

**Q.3** Define population and sampling. Explain different sampling designs with examples. Write the difference between parametric and non-parametric data and discuss the process of analysis of such data. (20)

**OR**

Write the list of research tools and statistical tools used for research in physical education. Explain the process of determining reliability and validity of a research tool.

**Q.4** What is historical research? Explain in detail of its methodology with reference to primary and secondary sources. (20)

**OR**

Write a model research proposal with reference to doctoral research in physical education. Explain – how to collect review of literature.

**Q.5** Write a model format for writing a research report with reference to physical education research. (20)

**OR**

Discuss in details about the mechanics of writing a research report. Write the differences between footnotes and bibliography with examples.

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