

2023

**RESEARCH PROCESS IN PHYSICAL EDUCATION
AND SPORTS SCIENCES**

Paper : MPCC-101

Full Marks : 70

The figures in the margin indicate full marks.

*Candidates are required to give their answers in their own words
as far as practicable.*

1. Discuss the need of research in Physical Education and Sports. What are the factors for selection of a research problem? Specify the qualities of a good researcher. 3+7+5

Or,

Write in brief about different types of research. What are the various methods of collecting data? 8+7

2. Write down the steps of Survey Research process. Discuss different processes of data collection in survey research. 7+8

Or,

Write down the steps of Experimental Research. Explain various kinds of true experimental designs. 8+7

3. What are systematic sampling and stratified sampling? Mention the differences between these sampling techniques. (5+5)+5

Or,

Define and describe Statistic and Parameter. Write about various types of probability sampling techniques. (3+3)+9

4. Write notes on **any two** of the following : 7½×2
- (a) Procedure of review of related literature
 - (b) Difference between research proposal and research report
 - (c) Parts of a Research Report
 - (d) Testing of Hypothesis.

Please Turn Over

5. Answer the following MCQs by choosing the correct option from the given alternatives for each question and write it on your answer script (**any ten**) : 1×10

(a) The method in which every individual has an equal chance of being selected is called —

- (i) Population
- (ii) Random sampling
- (iii) Snowball sampling
- (iv) Case study.

(b) The data of research is generally

- (i) Quantitative only
- (ii) Qualitative only
- (iii) Both (i) and (ii)
- (iv) None of these.

(c) Action research is

- (i) an applied research.
- (ii) a research carried out to solve immediate problems.
- (iii) a longitudinal research.
- (iv) simulative research.

(d) Following can be considered as primary source of literature in research :

- (i) Books
- (ii) Journals
- (iii) Newspapers
- (iv) All of these.

(e) Research used for studying practical problems and finding a solution to it is

- (i) Basic Research
- (ii) Action Research
- (iii) Applied Research
- (iv) Descriptive Research

(f) Research problem should not be based on

- (i) Subject interest of the researcher
- (ii) Financial interest of the researcher
- (iii) Expertise of the researcher
- (iv) All of the above.

(g) Among the following the most important quality of a researcher is

- (i) good subject specific knowledge
- (ii) ensuring data availability
- (iii) good verbal communication
- (iv) courage to conduct research.

(h) Which kind of variables are under the control of the researcher?

- (i) Dependent variables
- (ii) Independent variables
- (iii) Intervening variables
- (iv) Extraneous variables.

- (i) Research is
- (i) searching again and again.
 - (ii) finding solution to any problem.
 - (iii) working in a scientific way to search for truth of any problem.
 - (iv) None of the above.
- (j) Which one of the following is a non-probability sampling?
- (i) Stratified sampling
 - (ii) Systematic sampling
 - (iii) Quota sampling
 - (iv) Cluster sampling.
- (k) Data are a representation of
- (i) Assumptions
 - (ii) Process
 - (iii) Facts
 - (iv) Procedures.
- (l) Which of the following is the first step in starting a research process?
- (i) Searching sources of information to locate problem
 - (ii) Survey of related literature
 - (iii) Identification of problem
 - (iv) Searching for solutions to the problem.
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