

2026

RESEARCH AND STATISTICS IN PHYSICAL EDUCATION

Course : CC-403

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. What is a research problem? Discuss the criteria for selecting a good research problem. 5+10

Or

Classify research according to objective of the study. Explain the qualities of a good researcher. 8+7

2. Describe various methods of collecting data in Research. Explain various sources of literature for conducting research. 9+6

Or

Explain various steps for preparing a research report. 15

3. Write discrete and continuous series with suitable examples. What is frequency distribution? Write the method of preparing class interval for construction of frequency distribution table. 6+4+5

Or

Prepare an Ogive graph from the following frequency distribution table : 15

Class Interval	Frequency
5-10	8
10-15	15
15-20	20
20-25	18
25-30	28
30-35	25
35-40	12

Please Turn Over

(5314)

4. Answer the following question (*any two*) :

7½×2

(a) Calculate Mode from the following frequency table :

Class Interval	Frequency
21-25	18
26-30	28
31-35	45
36-40	10
41-45	5
46-50	4

(b) Calculate the Quartile Deviation from the following data set :

X :	5	18	11	27	23	16	9	25	22	12	6
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(c) Elaborate the scope of research in Physical Education and Sports.

(d) Discuss advantages and disadvantages of Median as a measure of Central Tendency.

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) In a perfectly normal distribution, the relationship between the Mean, Median and Mode is

(i) Mean > Median > Mode

(ii) Mean < Median < Mode

(iii) Mean = Median = Mode

(iv) Mean = Median > Mode.

(b) Q_1 is also known as _____ percentile.

(i) 20

(ii) 25

(iii) 30

(iv) 40.

(c) In case of Interval or Ratio data, the best measure of central tendency is

(i) Mean

(ii) Median

(iii) Standard Deviation

(iv) Mode.

(d) The range of the given set of observations (5, 7, 8, 5, 12, 14, 25, 22) is

(i) 20

(ii) 15

(iii) 12

(iv) 25.

(e) The suitable measure of central tendency to know the popular brand of a product among people will be

(i) Mean

(ii) Median

(iii) Mode

(iv) None of these.

- (f) The Median of scores 4, 6, 8, 10, 15, 20 is
- (i) 10
 - (ii) 8
 - (iii) 15
 - (iv) 6.
- (g) Which of the following is not a method of Research?
- (i) Survey
 - (ii) Historical
 - (iii) Observation
 - (iv) Philosophical.
- (h) In the process of conducting research 'Formulation of Hypothesis' is followed by
- (i) Statement of Objectives
 - (ii) Analysis of Data
 - (iii) Selection of Research Tools
 - (iv) Collection of Data.
- (i) Survey is a study which known as
- (i) Descriptive
 - (ii) Fact Finding
 - (iii) Analytical
 - (iv) Systematic.
- (j) The technique generally followed when the population is finite, known as
- (i) Systematic Sampling Technique
 - (ii) Purposive Sampling Technique
 - (iii) Area Sampling Technique
 - (iv) None of these.
- (k) The scale measurement which has a natural zero is
- (i) Ratio
 - (ii) Nominal
 - (iii) Ordinal
 - (iv) Interval.
- (l) One of the following which is not considered as one of the seven major parts to the research report is
- (i) Results
 - (ii) Abstract
 - (iii) Method
 - (iv) Footnotes.
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