

2024

RESEARCH AND STATISTICS IN PHYSICAL EDUCATION

Paper : 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. Explain the term Research with a proper definition. Explain the need and importance of Research in Physical Education and Sports. 6+9

Or,

Explain the criteria for selecting a good Research Problem. Which qualities make a good researcher? 10+5

2. Write down the importance of review of related literature in research. Discuss the methods of data collection in Research. 6+9

Or,

Write down the difference between a Research report and a Research proposal. Explain the various steps in the preparation a of research proposal. 6+9

3. What is meant by statistics? Describe need and importance of statistics in the field of physical education and sport. Write down the importance of graphical presentation. 2+9+4

Or,

What is graphical presentation in Research? Mention various types of graphical presentation. Prepare a frequency distribution table for the scores given below:

23 18 16 30 21 38 34 22 25 26

28 36 27 44 37 46 35 25 21 29

22 45 29 18 13 20 48 31 43 37

Represent the above data in the form of a (i) Histogram and (ii) Frequency polygon.

1+2+6+(3+3)

4. Answer the following questions (*any two*): 7½×2
- (a) Describe the uses of measures of central tendency.
- (b) Write the advantages and disadvantages of Standard Deviation and Mean Deviation.

Please Turn Over

- (h) The average of all observations in a set of data is known as
- (i) Median
 - (ii) Range
 - (iii) Mean
 - (iv) Mode.
- (i) The sum of deviations of values from their mean is always
- (i) greater than the maximum value
 - (ii) equal to the minimum value
 - (iii) double the average value
 - (iv) nil.
- (j) Which of the following is not a measure of dispersion?
- (i) Scatter
 - (ii) Spread
 - (iii) Regression
 - (iv) Variation.
- (k) If there are extreme scores in the distribution, then best measure of central tendency is
- (i) Arithmetic Mean
 - (ii) Median
 - (iii) Mode
 - (iv) Geometric Mean.
- (l) Standard deviation of the scores : 6, 8, 10, 12, 14 is
- (i) 8.0
 - (ii) 28.3
 - (iii) 2.83
 - (iv) 4.0.
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