

B.P.Ed. Examination, 2017
Semester-IV
Physical Education
Course – CC– 403
(Research and Statistics in Physical Education)

Time – 3 Hours

Full Marks- 70

Answer one question from each unit for Unit I – IV, Unit V is compulsory.

Unit-I

1. Define Research. Classify research with explanation. Describe the need and importance of research in Physical Education and Sports. 2+4+9 = 15

Or

What is a research problem? Discuss the criteria for selection of a research problem. What are delimitations and limitations? 2+9+4 = 15

Unit-II

2. Discuss the need for surveying related literature. Library source is an important area of literature search- explains. 10+5 = 15

Or

What is research report? Discuss the organization of research report. 3+12 = 15

Unit-III

3. Define Statistics. Write different statistical processes. Explain the need of statistical application in Physical Education and Sports. 2+3+10= 15

Or

What is data and its types? Write the uses of graphical representation in statistics. Draw a frequency distribution table from the following raw scores: 3+4+8= 15

52, 35, 75, 46, 63, 58, 51, 48, 39, 67, 74, 59, 41, 62, 76, 62, 42, 38, 65, 56, 47, 55, 49, 40, 58, 45, 76, 59, 62, 54, 47, 63, 70, 43, 63, 41, 61, 69, 44, 60, 54, 61, 43, 69, 62, 52

UNIT-IV

4. What is Measures of Central tendency? Explain different measures of central tendency. Calculate mean, median and mode from the following distribution: 6+9 = 15

Scores	f
60-66	3
53-59	5
46-52	8
39-45	13
32-38	9
25-31	6
18-24	2

P.T.O.

(2)

Or

What is Measures of variability and its different measures? Calculate Standard deviation, Quartile deviation and Mean deviation from the distribution mentioned in Q. No. 4.

6+9 = 15

UNIT-V

5. Answer *any ten* questions: 1×10 = 10
- i. The research aims at finding a solution for an immediate problem is-
a. Basic research b. Applied research c. Action research d. True research
 - ii. The research which is concerned with the formation of a theory is-
a. Applied research b. Basic research c. Action research d. Experimental research
 - iii. The no. of scores lying in a step interval is-
a. Range b. Raw scores c. Group data d. Frequency
 - iv. The difference between maximum and minimum scores is-
a. Frequency b. Range c. Raw scores d. Mean
 - v. A process that requires a logical and objective approach to problem solving is-
a. Statistics b. Management c. Measurement & Evaluation d. Research
 - vi. 50% score in a distribution is-
a. Mean b. Median c. Mode d. Percentiles
 - vii. A statement that identifies the situation to be studied is-
a. Statistics b. Problem c. Test d. Measurement
 - viii. The centre of gravity of a distribution is-
a. Mean b. Median c. Mode d. Standard deviation
 - ix. A set of data when represented in the form of picture is called-
a. Chart b. Graph c. Diagram d. Geometry
 - x. A set of values either quantitative or qualitative in nature is called-
a. Test b. Data c. Statistics d. Mathematics in a distribution
 - xi. The scores that appear most frequently is-
a. Mean b. Median c. Mode d. Range
 - xii. The term to identify the boundaries of a research is-
a. Problem b. Limitation c. Delimitation d. Hypothesis
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