

BACHELOR OF PHYSICAL EDUCATION EXAMINATION, 2022

(2nd Year, 4th Semester)

Research and Statistics in Physical Education**PAPER - CC - 403**

Time : Three hours

Full Marks : 70

Group-A

1. What is Research? Explain Basic, Action & Applied Research in detail. Describe the qualities of a good researcher. 3+7+5=15
2. Mention the various parts of a Research Report. Write down the various methods of collecting data. 8+7=15
3. Write down the advantages of graphical representation.

The following scores were obtained by a group of 40 students on an achievement test:

32	78	27	65	88	83	63	52
86	70	42	66	56	44	63	59
73	52	43	69	59	46	71	65
42	55	39	70	57	49	78	70
34	61	62	77	81	72	79	69

Prepare a frequency distribution table and extend it to a Histogram and Frequency Polygon. 4+6+5=15

4. What do you mean by Measures of Central Tendency? Write down the uses of Median and Mode. Calculate Median and Mean from the following frequency distribution:

Class	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119
Frequency(f)	4	6	9	11	9	6	3	2

2+4+4+5=15

5. What is dispersion? Write down the advantages and disadvantages of Standard Deviation. Calculate SD and First Quartile (Q_1) from the following frequency distribution:

Class	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89
Frequency(f)	4	6	12	15	9	8	6	5

2+4+4+5=15

[Turn over

Group –B

Write short notes (any two)

7.5x2=15

- 6) Methods of collecting data
- 7) Uses of measures of variability
- 8) Need and importance of research
- 9) Data and its types

Group-C

10) Answer any ten Question

1×10=10

- I. Value in a series of observation which occurs with the greatest frequency is
 - a) Mean
 - b) Mode
 - c) Median
 - d) Geometric mean
- II. Which of the following is not a name of dispersion
 - a) Scatter
 - b) Spread
 - c) Regression
 - d) Variation
- III. Which of the following is not an average
 - a) Mean
 - b) Median
 - c) Mode
 - d) Standard Deviation
- IV. The essential qualities of a good researcher is/are
 - a) Systematization of knowledge
 - b) Reliance of observation
 - c) Sprit of free enquiry
 - d) All of the above
- V. Root mean square deviation is also known as
 - a) Mean Deviation
 - b) Standard Deviation
 - c) Variance
 - d) Correlation

- VI. Research proposal is also known as
- Abstracts
 - Research report
 - Thesis
 - Synopsis
- VII. Research undertaken for knowledge sake is
- Pure research
 - Survey
 - Action research
 - Long term research
- VIII. The simplest method of studying dispersion is
- Range
 - Quartile deviation
 - Standard Deviation
 - Mean Deviation
- IX. In research report, preliminary matters include:
- Title page, Acknowledgement, Appendixes
 - Reference, Title page, Acknowledgement
 - Title page, Acknowledgement, Table of content
 - Table of content, Reference, Title page
- X. Which of the following is a classification of research?
- Basic research
 - Action research
 - Applied research
 - All of these
- XI. Review of related literature in a research paper is in
- 1st chapter
 - 2nd chapter
 - 3rd chapter
 - 4th chapter
- XII. Variance was introduced by
- R.A Fisher
 - Pearson
 - Gusset
 - Spearman