



**Avinashilingam Institute for Home Science and Higher Education for Women
(Deemed to be University) Coimbatore – 641 043**

Bachelor of Physical Education Degree Examination – April 2019
IV Semester

Class : II B.P.Ed.

Time: 3 Hrs
Max. Marks: 100

**15BPDE4A Discipline Specific Elective (DSE-IV) : Research and Statistics in
Physical Education**

Part – A

10 X 1 = 10

Choose the correct answer

1. _____ is the systematic investigation into and study of materials and sources in order to establish facts and reach new conclusions.
 - a. Teaching
 - b. Research
 - c. Evaluation
 - d. Assessment
2. This is defined as the search and evaluation of the available literature in the chosen topic area.
 - a. Data analysis
 - b. Research methods
 - c. Conceptual framework
 - d. Review of literature
3. _____ of a study restricts the option of controlling the size or extent of something.
 - a. Definition
 - b. Source of the problem
 - c. Objectives
 - d. Limitations
4. Data that are presented with class interval and frequency is referred as
 - a. Raw data
 - b. Continuous data
 - c. Statistical
 - d. Numerical
5. _____ is also referred as cumulative frequency graph.
 - a. Histogram
 - b. frequency polygon
 - c. Ogive
 - d. frequency curve
6. In this sampling the researcher divides the population into separate groups, called strata.
 - a. Snowball
 - b. Stratified
 - c. Quota
 - d. Cluster
7. _____ refers to a definite plan for obtaining a sample from a population.
 - a. Sample design
 - b. Randomization
 - c. Stratification
 - d. Variable
8. This represents the average of the numbers: a calculated "central" value of a set of numbers.
 - a. Quartile deviation
 - b. Mode
 - c. S.D
 - d. Mean
9. The systematic method for collecting, analyzing, and using information to answer questions about health projects, policies and programs are
 - a. Health research
 - b. Health assessment programme evaluation
 - c. Health indicator
 - d. Health assessment
10. Which one of the following is not a measure of variability ?
 - a. Average deviation
 - b. Range
 - c. Variance
 - d. Mode

Part – B

5 X 6 = 30

Answer the following questions

Answer should not exceed 400 words or two pages

11. a. Discuss the need for research in physical education and sports.
(or)
11. b. Write the qualities of a good researcher in physical education.
12. a. Mention the criterias of a good research problem.
(or)
12. b. Differentiate population from sample. Enumerate the characteristics of a good sample.
13. a. Highlight the best practices in designing group projects.
(or)
13. b. Explain the steps in the sampling process.
14. a. Find the standard deviation for the given raw scores.

X:	3	2	6	7	8	4	1	9
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(or)
14. b. Write a note on measures of central tendency. List its merits and limitations.
15. a. State the ethical issues in conducting research in physical education.
(or)
15. b. Enunciate the importance of construction of tables in the representation of data and data analysis.

Part – C

5 X 12 = 60

Answer the following questions

Answer should not exceed 800 words or four pages

16. a. Elucidate the steps in writing a research proposal.
(or)
16. b. Describe the procedure to be adopted in organising therelated literature in a systematic manner.
17. a. Give a detailed account on the significance of graphical representation of data.
(or)
17. b. Define sampling. Explain different types of sampling with suitable examples.
18. a. Describe the major steps to be followed in survey method.
(or)
18. b. Explain the measures of variability with illustrations.
19. a. Discuss the criteria involved in the selection of sample.
(or)
19. b. Explain the various principles to be observed in writing a research report.
20. a. Determine the mean, median, standard deviation and range of the following distribution.
68, 76, 85, 70, 70, 77, 75, 70, 65, 60, 48.
(or)
20. b. Write short notes on : i. Percentiles and ii. Ogive.
