



*Sambath*

**Avinashilingam Institute for Home Science and Higher Education for Women**  
Deemed to be University Estd. u/s 3 of UGC Act 1956, Category A by MHRD (now MoE)  
Re-accredited with A++ Grade by NAAC. CGPA 3.65/4, Category I by UGC  
Coimbatore - 641 043, Tamil Nadu, India  
Continuous Internal Assessment Test II – March 2026  
IV Semester

Class : II B.P.Ed

Time: 2 hours

Major : Physical Education

Maximum Marks: 60

**23BPDE4A Research Methodology in Physical Education**

**Course Outcomes:**

At the end of the course, students will:

1. Identify the research problem in the field of physical Education and sports
2. Know to Summarize the various research literature
3. Understand and apply the basics of statistics in research.
4. Organize the samples and sampling techniques which is relevant to the study.
5. Apply the basics of statistics in minor research project for evaluation.

**Part - A**

6 x 1 = 6

**Choose the Correct Answer**

1. A researcher measures the effect of changing the independent variable on the dependent variable. Which design is being used? CO1 K3  
a. Descriptive design b. Experimental design c. Diagnostic design d. Exploratory design
2. One of the members of the population is known as the CO2 K3  
a data b. family c. element d. group
3. Which of the following is a measure of central tendency? CO3 K2  
a Range. b Standard deviation. c. Median d. Variance
4. Which type of statistics focuses on summarizing and describing the data? CO1 K3  
a. Inferential statistics b. Descriptive statistics c. Applied statistics d. Theoretical statistics
5. Which of the following is considered the most reliable measure of variability? CO2 K1  
a Range b Quartile Deviation. c. Standard Deviation d. Mean Deviation
6. What is the main goal of a t-test? CO3 K2  
a. To compare variances. b To compare means of two groups.  
c To analyze a single sample. d. to assume the mean

**Part - B**

3 x 6 = 18

**Answer ALL Questions**

**Each answer should not exceed 400 words or two pages**

7. a. What do you mean by research design? Explain with example CO3 K2  
(or)
7. b. What is sampling and give the types of sampling CO2 K3
8. a. Give the meaning and Definition of Statistics CO1 K3  
(or)
8. b. Enumerate the Nature and Importance of Statistics CO5 K4
9. a. What is Mean Deviation- explain CO4 K3  
(or)
9. b. What is Standard Deviation – Explain CO3 K3

**Part - C**

3 x 12 = 36

**Answer ALL questions**

**Each answer should not exceed 800 words or four pages**

- 10.a. Give the features of Good research design, types and classification of research design CO2 K3  
or
- 10.b. Describe the characteristics of Sampling and explain about probability and No probability CO3 K3
- 11.a. Write short notes on CO4K4  
a. Class Interval b. Raw Score c. Continuous and Discrete series d. Class Distribution  
or
- 11.b. Explain about Measures of Central Tendency CO4 K3
- 12.a. Explain about the Measures of Variability CO1 K4  
or
- 12.b. Enumerate correlation and its types with sample sum and formula CO2 K3

No. of Copies : 20

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Staff in-charge: Dr.P.Vanithamani