



Neeraj

**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)  
Re-accredited with 'A++' Grade by NAAC. Recognised by UGC Under Section 12B  
Coimbatore - 641 043, Tamil Nadu, India

**Bachelor of Physical Education Degree Examination – May 2023**  
**IV Semester**

Class: II B.P. Ed.

Time : 3 Hours

Max. Marks : 100

**21BPDE4A Discipline Specific Elective (DSE) - IV: Research and Statistics**  
**in Physical Education**

Course Outcomes:

CO1: Identify the research problem in the field of physical Education and sports

CO2: Know to Summarize the various research literature

CO3: Understand and apply the basics of statistics in research.

CO4: Organize the samples and sampling techniques which is relevant to the study

CO5: Apply the basics of statistics in minor research project for evaluation

**Part A**

**10 x 1 = 10**

**Choose the Correct Answer**

1. \_\_\_\_\_ is the framework of research methods and techniques chosen by a researcher to conduct a study. CO3 K2
  - a. Research design
  - b. Research problem
  - c. Previous Research
  - d. Research types
2. The Boundary of research is CO2 K4
  - a. Limitation
  - b. Hypothesis
  - c. Delimitation
  - d. Statement of the problems
3. Research proposal means CO3 K4
  - a. Completed research work
  - b. Abstract of the Research
  - c. Research Procedure
  - d. Blue Print of the research work to be done
4. Steps used for locating research problems are CO1 K2
  - a. Discussion with expert's
  - b. Study of literature
  - c. Study the research work already completed
  - d. All of the above
5. \_\_\_\_\_ is defined as the difference between the upper-class limit and the lower class limit. CO5 K4
  - a. Class interval
  - b. tables
  - c. distribution
  - d. polygon
6. \_\_\_\_\_ is also known as a cumulative frequency polygon. CO3 K1
  - a. pie diagram
  - b. histogram
  - c. ogive
  - d. none of the above
7. \_\_\_\_\_ is more complex, more time-consuming and usually more costly than non-probability sampling. CO4 K4
  - a. non probability sampling
  - b. Probability sampling
  - c. both a & b
  - d. none of the above
8. \_\_\_\_\_ is a method of choosing a sample of observations from a population to make assumptions about the population. CO1 K4
  - a. reverse sampling
  - b. convenience sampling
  - c. random sampling
  - d. all of the above

9. \_\_\_\_\_ is helpful to make calculations of certain values which will help in describing and analyzing the data. CO2 K4  
 a. grouped data      b. ungrouped data      c. secondary data      d. primary data
10. \_\_\_\_\_ is a summary statistic that represents the amount of dispersion in a dataset. CO1 K4  
 a. measure of mean      b. measure of variability  
 c. measure of reliability      d. measure of scores

**Part B** **5 x 6 = 30**  
**Answer ALL questions**  
**Each answer should not exceed 400 words or two pages**

- 11.a. Elucidate the basic Research. CO1 K4  
 (or)
- 11.b. How will you locate a research problem? – Explain. CO1 K3
12. a. Analyse the significance of the research proposal. CO2 K2  
 (or)
- 12.b. Discuss the Self-assessment programme evaluation. CO2 K4
- 13.a. Describe about continuous and discrete series. CO3 K4  
 (or)
- 13.b. Give a brief description of nature and importance of Statistics. CO3 K5
- 14.a. Explain the different methods of sampling technique. CO4 K2  
 (or)
- 14.b. Tabulate the repeated measures design. CO4 K5
- 15.a. Distinguish between advantages and disadvantages of statistics. CO5 K1  
 (or)
- 15.b. Evaluate the means and importance of Measures of variability. CO5 K2

**Part C** **5 x 12 = 60**  
**Answer ALL questions**  
**Each answer should not exceed 800 words or four pages**

16. a. Explain the need, nature and scope of research in physical education. CO1 K4  
 (or)
- 16.b. Describe the various classifications of Research. CO1 K1
- 17.a. Prepare a research proposal for you research problem. CO2 K4  
 (or)
- 17.b. Evaluate the need for surveying related literature. CO2 K3
- 18.a. Define class intervals and explain the types. CO3 K4  
 (or)
- 18.b. Explain the need and importance of statistics in physical education. CO3 K1
- 19.a. Explain the different types of experimental design. CO4 K2  
 (or)
- 19.b. Evaluate single group design and factorial design. CO4 K4
- 20.a. Tabulate measures of central tendency. CO5 K4  
 (or)
- 20.b. Explain about various types of data. CO5 K3

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