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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 2022
IV Semester**

Class: II B.P. Ed.

**Time : 3 Hours
Max. Marks: 100**

**18BPDE4A 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
Choose the Correct Answer**

10 x 1 = 10

1. Which of the following is not a "graphic representation"? CO2 K2
a. Pie chart b. Bar chart c. Table d. Histogram
2. A research paper is a brief report of research work based on CO1 K1
a. Primary data only b. Secondary data only
c. Both primary and secondary data d. None of the above
3. Which of the following is the first step in starting the research process? CO2 K3
a. Searching sources of information to locate problem
b. Survey of related literature
c. Identification of problem
d. Searching for solutions to the problem
4. In a survey we use: CO1 K2
a. Only census method b. Only sample method
c. Can be either sample or census method d. None of these
5. Diagrams and graphs are the tools of CO3 K3
a. Collection of data b. Analysis c. Presentation d. Summarization
6. The mean scores of 15, 16, 18 and 19 is CO2 K2
a. 16 b. 17 c. 18 d. 19
7. An average is a measure of CO3 K3
a. Dispersion b. Central tendency
c. Ways of sampling d. None of these
8. Dividing the series in to hundred parts known as CO4 K2
a. Deciles b. Percentiles c. Quartiles d. Median
9. The most frequency occurring value of a data set is called the CO4 K2
a. Range b. Mode c. Mean d. Median
10. Which of the following is not a measure of central tendency? CO4 K2
a. Percentiles b. Quartile c. Mode d. Standard deviation

Part B

5X6=30

Answer ALL questions

Each answer should not exceed 400 words or two pages

- 11.a. Explain the location and criteria of selection of problem. CO2 K2
(or)
- 11.b. Briefly explain the formulation of a research problem. CO4 K4
- 12. a. How will you prepare a research proposal? CO2 K3
(or)
- 12. b. Explain the need for surveying of related literature. CO4 K4
- 13. a. Briefly explain the nature and importance of statistics. CO1 K2
(or)
- 13. b. Write short notes on histogram and frequency polygon CO2 K3
- 14. a. What are the characteristics of a good sample. CO4 K5
(or)
- 14. b. Explain the features of a good research design CO4 K4
- 15. a. Compute the mean and median of the given data. CO5 K3
1, 3, 5, 8, 9, 10, 12, 15.
(or)
- 15. b. Compute the standard deviation of the given data CO4 K5
20, 17, 15, 14, 13, 12, 14, 15, 10.

Part C

5X12=60

Answer ALL questions

Each answer should not exceed 800 words or four pages

- 16.a. Explain the need and importance of research in physical education and sports. CO2 K2
(or)
- 16.b. Describe the different steps involved in a scientific research process. CO2 K3
- 17.a. How do prepare the research report? CO3 K3
(or)
- 17.b. Explain the survey of related research. CO5 K4
- 18.a. Enumerate the class intervals of statistics analysis. CO2 K3
(or)
- 18.b. Briefly explain the graphical presentation of class distribution. CO3 K4
- 19.a. Define research design. Explain the types and uses of research design. CO4 K4
(or)
- 19.b. Define Sampling and it's types. CO4 K5
- 20.a. Calculate the values of mean, median and mode for the following frequency distribution: CO5 K3

CI	73-75	70-72	67-69	64-66	61-63	58-60	55-57	52-54	49-51	46-48
F	1	1	2	4	11	10	4	3	3	1

(or)

- 20.b. Compute the standard deviation of the given data. CO4 K5

CI	45-49	40-44	35-39	30-34	25-29	20-24	15-19	10-14	05-09
F	2	3	2	6	8	8	7	5	9
