

Bachelor of Arts Examination - 2025**Department of Physical Education****2nd Year, 2nd Semester****Subject Code: CC-403****Research and Statistics in Physical Education****Time: Three Hours****Full Marks: 70****Group - A**Answer the following questions (**Any three**)

15×3=45

1. What is meant by research? Explain different types of research with suitable examples.
3+12=15
2. Write down the advantages of graphical representations.

The age is completed years of 50 persons is given below

67	09	20	31	77	36	42	75	15	95
25	35	51	11	30	43	81	22	97	43
52	31	50	32	23	40	40	62	21	60
55	47	20	10	45	42	27	53	61	39
56	22	64	30	13	73	49	46	35	54

- a) Prepare a frequency distribution table taking class limits.
- b) Draw histogram.
- c) Calculate the value of mode from the histogram.

[value of $\log_{50} = 1.69807000434$]

3+4+4+4=15

3. What is meant by measures of central tendency? Why mean is the most reliable measure of central tendency? Calculate mean and standard deviation from the following distribution:

Class	10-14	15-19	20-24	25-29	30-34	35-39	40-44
f	7	15	18	20	9	6	5

$$2+3+5+5=15$$

4. What is variability? Mention the various measures of variability. Write down the uses of standard deviation. Calculate median and mode from the following distribution.

Class	5 -	10 -	15 -	20 -	25 -	30 -	35 -
	10	15	20	25	30	35	40
f	4	9	17	25	20	8	7

$$2+1+4+5+3=15$$

5. Write down the importance of review of literature in detail. Mention the different parts of a Research Report.

$$7+8=15$$

Group - B

Write Short Notes on **any two** of the following:

$$7\frac{1}{2} \times 2 = 15$$

6. Research proposal.
7. Methods of collecting data
8. Average deviation & quartile deviation
9. Importance of research in Physical Education and Sports.

Group - C

10. Choose correct answer for each MCQ and write it down on your answer script (**any ten**).

$$1 \times 10 = 10$$

- i) Which of the following is the first step in the research process?
- a) Data collection
 - b) Problem identification
 - c) Hypothesis formulation
 - d) Data analysis

- ix) The square of the standard deviation is called:
- a) Median
 - b) Range
 - c) Variance
 - d) Mean deviation
- x) A high standard deviation indicates:
- a) Data is closely clustered
 - b) Low variability
 - c) High consistency
 - d) High variability
- xi) Significance of the study in research report includes in the
- a) First Chapter
 - b) Second Chapter
 - c) Third Chapter
 - d) Fourth Chapter
- xii) The crude measure of Central Tendency is
- a) Mean
 - b) Median
 - c) Mode
 - d) Standard deviation
