

**VINAYAKA MISSION'S RESEARCH FOUNDATION, SALEM****B.P.Ed. DEGREE EXAMINATION – November 2018****Third Semester****RESEARCH AND STATISTICS IN PHYSICAL EDUCATION**

Time: Three hours

Maximum: 75 marks

**PART – A (10 x 2 = 20 marks)**Answer any **TEN** questions. All questions carry equal marks.

1. Meaning of Research.
2. What is Action Research?
3. Define Hypothesis.
4. Meaning of variables.
5. List down the types of Experimental Design.
6. What is Thesis?
7. Write down the Back material.
8. Define Statistics.
9. Define Mean.
10. What is standard Deviation?
11. Meaning of Sigma Scale.
12. What is Histogram?

**PART – B ( 5 x 5 = 25 marks)**Answer any **FIVE** questions. All questions carry equal marks.

1. Explain Location of Research problem.
2. Explain variables and types of variables.
3. Mechanics of writing Footnote.
4. To calculate Mean, Median and mode for the following data:  
2, 8, 10, 12, 16, 18, 22, 36, 45, 57, 16
5. Explain types of statistics.
6. To calculate standard deviation from the following ungrouped data:  
1, 2, 3, 4, 5, 9, 10, 12
7. Explain Frequency Polygon.
8. Explain Sigma Scale.

**PART – C (3 x 10 = 30 marks)**Answer any **THREE** questions. All questions carry equal marks.

1. Explain qualities of a good researcher.
2. Explain Experimental Design and types.
3. Method of writing Research proposal (or) Thesis.
4. To calculate mode for the following grouped data:

SI	90-99	80-89	70-79	60-69	50-59	40-49	30-39
F	4	8	5	6	8	3	7

5. Explain Graphical Representation in statistics with diagram.

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