

**VINAYAKA MISSION'S RESEARCH FOUNDATION, SALEM****B.Sc(P.Ed) DEGREE EXAMINATION – November 2018  
Fifth Semester****BASIC 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. Define “quantitative data”.
2. Give the meaning of the term ‘statistics’.
3. What is frequency distribution?
4. What is a raw score in statistics?
5. What is meant by measures of central tendency?
6. Calculate the median from the following data: 13, 16, 12, 14, 19, 12, 14, 13, 14
7. When do we use T-Scale?
8. What are quartiles?
9. Write down the meaning of correlation.
10. Define “Mean”.
11. Define “Inferential Statistics”.
12. Write down any two demerits of Median.

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

13. Briefly explain advantages and disadvantages of Frequency table.
14. Distinguish raw data and grouped data with examples.
15. Define “Mode” and explain the types of mode.
16. Find out Mean Deviation for the following scores:  
23, 23, 15, 13, 14, 15, 16, 15, 15, 18, 19, 17, 24, 25, 16, 14, 15, 16.
17. Distinguish Comparative and Descriptive Statistics with examples.
18. Find out Standard Deviation for the following scores:  
24, 33, 30, 19, 28, 33, 30, 38, 39, 38, 26, 28, 33, 30, 34, 29, 33, 14, 23, 13,  
22, 21, 20, 25, 25, 15, 25, 28.
19. Compute Correlation:

X	75	85	95	65	80	90
Y	155	170	195	145	165	185

20. What is normal curve? Explain the probability of normal curve

(p.t.o)

**PART – C (3 x 10 = 30 marks)**

Answer any **THREE** questions. All questions carry equal marks.

21. Explain the need and importance of statistics in physical education.
22. Construct a frequency table for the following:  
25, 24, 24, 36, 29, 35, 30, 29, 30, 30, 30, 35, 35, 35, 12, 14, 15, 23, 25, 12, 35, 15, 35, 10, 5, 15, 14, 3, 14, 15, 23, 24, 24, 36, 29, 30, 35, 35, 10, 5, 15, 25, 35, 35, 12, 14, 15, 23, 25, 24, 24, 36.
23. Compute the mean and median for the following:  
12, 28, 36, 14, 11, 19, 10, 17, 13.
24. Calculate the standard deviation:

C.I.	30-39	40-49	50-59	60-69	70-79	80-89	90-99
F	1	2	7	12	6	4	2

25. Write down the types of correlation and explain when rank order correlation is applied?

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