# VINAYAKA MISSION'S RESEARCH FOUNDATION, SALEM

## B.P.E.S. 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. Give the meaning of the term 'Statistics'.
2. Define "Raw Data".
3. What are qualitative data?
4. Define 'Quartile Deviation'.
5. Define "Mean Deviation".
6. Define "Measures of Dispersion".
7. Define "Predictive Statistics".
8. Find out "Mode" for the given scores: 10, 13, 15, 17, 19, 20, 25, 26, 15.
9. Explain the formula for decile.
10. Write down the formula for calculating percentile.
11. What is zero correlation?
12. What is a normal curve in statistics?

### PART – B (5 x 5 = 25 marks)

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

13. Briefly explain the nature of statistics.
14. Write short notes on continuous and discrete series.
15. List the advantages and disadvantages of grouped and ungrouped data.
16. What are the merits and demerits of measures of central tendency?
17. Calculate the standard deviation for the following: mean = 26, $N = 10$.
18. Briefly explain the importance of 'percentiles' with examples.
19. Compute Quartile Deviation:

| 4 | 6 | 6 | 6 | 6 | 7 | 7 | 8 |
|---|---|---|---|---|----|----|----|
| 8 | 9 | 9 | 10 | 10 | 11 | 13 | 11 |

20. What is normal curve and write short note on properties of normal curve.

**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 and sports.

22. Find out Mean and Median for the given data:

| C.I | 225-229 | 230-234 | 235-239 | 240-244 | 245-249 | 250-254 |
|-----|---------|---------|---------|---------|---------|---------|
| F | 5 | 6 | 8 | 7 | 6 | 4 |

23. Explain specific characteristics and merits "Measures of Central Tendencies".

24. Explain measure of relative positive and explain when are they applied?

25. Explain types of correlation and rank order correlation.

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