# VINAYAKA MISSION'S RESEARCH FOUNDATION, SALEM
## (Deemed to be University)
## BASLP DEGREE EXAMINATION - November 2019
### Second Semester
## RESEARCH METHODS AND STATISTICS

Three Hours                                                           Maximum: 100 marks

## SECTION - A

**I. Fill in the blanks :**                                          **(6*1=6)**

1. The item taken from the population for analysis (for detection of hypothesis or arriving at a conclusion) are _____.
2. _____ graphical technique should be used to display a correlation.
3. _____ is the question that research project sets out to answer.
4. Each component of the population being studied is known as _____.
5. The collection of elements from which you will be drawing samples is called a _____.
6. Expand IRB: _____

**II. Answer briefly :**                                            **(8*2=16)**

7. Define Dispersion.
8. Define Probability.
9. Sources for literature survey.
10. Funding for research.
11. Population.
12. Recall bias.
13. Purposes of Publication.
14. Bar Diagram.

**III. Answer briefly :**                                           **(6*3=18)**

15. Arbitrary scales.
16. Prevalence vs Incidence.
17. Bias and confounders.
18. Disadvantage of Non parametric test.
19. Disadvantages of Probability sampling.
20. State the advantages of diagrams in medical sciences.

## SECTION – B

**IV. Write short notes on any SIX:**                               **(6*5=30)**

21. Explain the use of ANOVA.
22. Write briefly about retrospective cohort studies.
23. State the importance of diagrams in representation of statistical data.
24. Define Scale measurements of statistical data.

25. Describe briefly Correlation.
26. Variables and its types.
27. Census.
28. Single subject design.

## SECTION – C

**V. Answer any TWO of the following :** **(2*15=30)**

29. What is meant by research? Explain the various steps involved in a research process.
30. With suitable examples, explain and compare a cross-sectional study and a case-control study.
31. a) Explain the measures of central tendency. (7)
    b) The part word repetition frequency observed from 12 children are
    1.54,1.26,1.01,1.59,0.97,0.82,1.23,1.02,0.99,0.93,0.82,0.86
    Calculate mean, median, and standard deviation. (8)
32. Write in detail on various scales of measurement. Cite appropriate examples.

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