

Q.P. Code: 111377

Reg. No.:.....

**First Year MASLP Degree Supplementary Examinations May 2019**

**Statistics and Research Methods**

**(2016 Scheme)**

Time: 3 hrs

Max marks: 80

- Answer all questions
- Draw diagrams wherever necessary

**Essays**

**(5x16=80)**

1. Discuss in detail about different methods of sampling. Explain the difference between probability sampling and non-probability sampling.
2. What are the qualities required to have a good measures of dispersion. Discuss normal distribution with example
3. Explain the research process in detail. Define reliability and validity in research
4. Describe non parametric test. State the various non parametric tests.

Attack rates among the vaccinated against measles are given in the following table. Prove the protective value of vaccination by Chi squared ( $X^2$ ) test.

(Table value  $X^2$  at 1 degrees of freedom = 3.841)

	Attacked	Not attacked	total
Vaccinated	10	90	100
Unvaccinated	25	85	110
	35	175	210

5. Explain in detail about various methods of correlation and also mention the uses of regression analysis

\*\*\*\*\*