**Q.P.Code: 101377**                              **Reg. No.:…………………**

# First Year MASLP Degree Examinations, September 2015

## STATISTICS AND RESEARCH METHODS

**Time : 3 hrs**                                                **Max marks : 80**

- Answer all questions.

**Essays**                                                       **(5x16=80)**

1. What are the types of variables found in research studies. Mention suitable examples to illustrate variables. List three methods of analysing variables.                 (4+4+8)

2. What is meant by measures of dispersion and mention the names. Establish that standard deviation is the best measure comparing with others.                 (4+4+8)

3. Find the correlation coefficient between age and weight of children.                 (16)

   | Age (years)  | 1 | 3  | 5  | 8  | 12 | 16 |
   |--------------|---|----|----|----|----|----|
   | Weight (kg)  | 8 | 14 | 20 | 30 | 42 | 60 |

4. What is the model in ANCOVA. Describe ANCOVA table and interpret the results (6+10)

5. How did the reliability and validity of a research data ascertained. What are the requisites for preparing a research report                 (8+8)

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