

Q.P. Code: 111377

Reg. No.:.....

**First Year MASLP Degree Supplementary Examinations March  
(December), 2020**

**Statistics and Research Methods**

**(2016 Scheme)**

**Time: 3 hrs**

**Max marks: 80**

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

**Essays**

**(5x16=80)**

1. Discuss various measures of variability with their merits and demerits. Calculate quartile deviation for the following data.

X	10	20	30	40	50	60	70
F	8	12	16	24	30	20	10

2. List the assumptions underlying ANOVA and calculate f and interpret:

Group 1	5	8	9	10	5
Group 2	6	8	7	9	5
Group 3	1	2	1	3	1

3. Write short notes on:

- Item analysis
- ROC

4. Explain various single subject research designs suitable for speech and hearing field.

5. Write an essay on reliability and validity.

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