

**Q.P. Code: 111377**

**Reg. No.:.....**

**First Year MASLP Degree Regular/Supplementary Examinations  
November 2019**

**Statistics and Research Methods**

**(2016 Scheme)**

**Time: 3 hrs**

**Max marks: 80**

- **Answer all questions**
- **Draw diagrams wherever necessary**

**Essays**

**(5x16=80)**

1. List down the properties of arithmetic mean. Discuss normal distribution with example. Explain skewness and kurtosis
2. Mention the various measures of correlation coefficient. Estimate the rank correlation for the following data and draw the scatter diagram

X	72	73	78	76	82	78	85	64	80	73
Y	45	38	40	35	34	40	32	35	36	38

3. Explain the structure of a research. Describe the research designs in detail.
4. Explain the steps involved in tests of significance. Discuss the properties and application of chi square test
5. Mention the different sampling methods and explain in detail. What are the assumptions need to find the sample size.

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