APPENDIX 'A'
(Outlines of Tests)

Paper: (Written) Time—3 hours: 100 Marks

APPENDIX 'B'
(Syllabi and Courses of Reading)

Paper 1: (Written):

1. **Introduction**:
   Definition, characteristics and limitations of statistics, Collection, classification and tabulation of data.

2. **Graph and Diagrams**:
   Bar and pie diagrams. Graphs of frequency distribution viz. Histogram, frequency polygon, frequency curve, cumulative frequency curve. Graphic interpolation.

3. **Averages**:
   Elementary knowledge and numerical illustrations of arithmetic mean, median, mode, and weighted average. Smoothing of fluctuations by moving average method.

4. **Dispersion**:
   Elementary knowledge and numerical illustrations of range, quartiles, quartile deviation, standard deviation, co-efficient of skewness and co-efficient of variation.

5. **Attributes and Chi-Square**:
   Concept of attribute, idea of independence and association, dichotomy, co-efficient of association, contingency table. Chi-square.

6. **Correlation**:
   Concept of regression, simple correlation and rank correlation with numerical illustrations.

7. **Sampling**:
   Concept of sampling. Definition of population and sampling unit. Purposive and random sampling. Drawing of a random sample without replacement from finite population.

*Books Recommended:*
