

## Reduced Syllabus : Class XI : Statistics : 70 Marks : 2020-2021

### Annual Examination

- 1. Introduction to Statistics :** Definition and limitations of statistics, Sample and population, Qualitative and quantitative data, collection of statistical data (Primary & Secondary), classification, Tabulation and diagrammatic representation (Pie chart, line diagram, Bar diagram) of data. Discrete and continuous variable questionnaire.  
frequency distribution and cumulative frequency distribution and their graphical representation (Histogram, frequency polygon, frequency curve and ogives).
- 2. Mathematics :** Arithmetic progression and geometric progression, Binomial Expansion, Cauchy Schwartz inequality.
- 3. Descriptive Statistics :** Central tendency, different measures of central tendency (Mean, median and mode), Quartiles, Deciles, Percentiles.
- 4. Concept of Dispersion,** Different measures of dispersion (Range, Quartile deviation, Mean deviation, Standard deviation), Relative measures of dispersion (coefficient of variation)
- 5. Moments,** Sheppard's correction for moments (without proof), Skewness and Kurtosis and their measures based on moment and quartiles.

### Marks Distribution of Theory Examination

| Q. Type | Marks     |
|---------|-----------|
| VSA     | 20 x 1=20 |
| SA      | 5x3=15    |
| LA      | 7x5=35    |

### Practical Syllabus : Statistics : Class XI

1. Computation of Range, Quartile deviation, mean deviation, standard deviation and coefficient of variation from ungrouped and grouped data.
2. Computation of different measures of skewness and kurtosis from ungrouped and grouped data.

### Marks Distribution for Practical Examination -2020-2021

Full Marks : 30 : Time: 3 h.

|                     |    |
|---------------------|----|
| Experiments (5+10)  | 15 |
| Practical Note Book | 5  |
| Viva-Voce           | 5  |
| Attendance          | 5  |