



**Q.1. Answer the following short questions: (15x2=30)**

- I. Differentiate between Discrete and Continuous Variable.
- II. Discuss the Measurement Scales shortly.
- III. Name the sources of Primary Data.
- IV. Name the main parts of a Table.
- V. Define Mode and also discuss its merits and demerits.
- VI. Write the types of Absolute Measures of Dispersion?
- VII. Define Skewness?
- VIII. In a symmetrical distribution  $Q_1=40$  and  $Q_3=60$ . Find the Coefficient of Quartile Deviation.
- IX. Write down the uses of Index Number.
- X. Given  $\sum P_o=2550$  and  $\sum P_n=2590$ . Find Price Index Number by using Simple Aggregative Method.
- XI. Define Time Series?
- XII. What is Scatter Diagram?
- XIII. Define Regression?
- XIV. Interpret the meaning of  $r = 1$  and  $r = -1$ , where  $r$  is Coefficient of Correlation.
- XV. Define Rank Correlation?

**Q.2. Answer the following questions: (3x10=30)**

i. Compute the Mean and Standard Deviation of the given data?

<b>Marks</b>	5-10	10-15	15-20	20-25	25-30	30-35	35-40
<b>Frequency</b>	8	12	16	30	20	4	2

ii. Fit a Straight Line  $y = a+bx$  to the following data taking 1998=0.

<b>Years</b>	1995	1996	1997	1998	1999	2000	2001
<b>Values</b>	10	16	25	20	22	10	14

iii. Find the Coefficient of Rank Correlation from the following marks of 10 students in Statistics and Mathematics.

<b>Statistics (X)</b>	100	165	192	123	255	206	143	202	127	231
<b>Mathematics (Y)</b>	45	24	67	44	99	66	23	89	53	47