THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

Q.1. Answer the following short questions: (6x5=30)

i) Differentiate between POPULATION and SAMPLE.

ii) Explain: RELATIVE FREQUENCY DISTRIBUTION, PRECENTAGE FREQUENCY DISTRIBUTION

iii) Write down properties of ARITHMETIC MEAN.

iv) Write down properties of VARIANCE.

v) Explain: NOMINAL and ORDINAL scales of measurement.

vi) What is Index number also list the steps involved in construction of Index number.

Solve the following questions.   (3x10=30)

Q.2. Given below is the distribution of weekly income (to the nearest rupee) of 100 households in a locality A.

Ages(Years)	15—19	20—24	25—29	30—34	35—39	40—44	45—49	50—54
f	29	176	208	173	82	40	15	3

Calculate: Skewness by Bowley's formula and interpret the results.

Q.3. Given below is the distribution of weekly income (to the nearest rupee) of 100 households in a locality A.

Income	35—39	40—44	45—49	50—54	55—59	60—64	65—69
f	13	15	17	28	12	10	5

Calculate: a) Arithmetic Mean   b) Variance

Q.4.
Compute Fisher's price index number of 1976 with 1961 as base form the following data.

Commodity	Quantity(units)		Value(Rs.)	
	1961	1976	1961	1976
A	100	150	600	1200
B	80	100	400	700
C	60	72	180	432
D	30	33	450	363