

## Quantitative Technique-2014

### Section-'A' (Objective Type Questions)

**Note:** Attempt any five question. All question carry equal marks. Select the right answer.

1. State the 'True' & 'False' (any five):
  - (i) Statistics are aggregate of facts.
  - (ii) Standard deviation is second moment of dispersion.
  - (iii) Statistics deals with individual items.
  - (iv) Quantitative and qualitative data are one and same.
  - (v) The sum of deviations from average is zero.
  - (vi) If variance is 25, the S.D. will be 10.
  - (vii) The formula is variance:
$$\sigma^2 = \text{variance}$$
  - (viii) The formula of weighted Aggregated Index Number is =
$$\frac{EP_1q_0}{\epsilon P_0q_0} \times 100$$

### Section-'B' (Short Answer Type Questions)

**Note:** Attempt any three questions. All question carries equal marks.

2. What are the important functions of a statistics.
3. What is co-efficient of variation? What purpose does it serve?
4. Explain the theory of Action and reaction of business Forecasting.
5. What are the components of time series.
6. What main points should be taken into consideration while constructing simple index numbers.

### Section-'C' (Long Answer Type Questions)

**Note:** Attempt any three questions. All questions carry 7 marks.

7. "Statistics plays an importance role not only in the study of Economic and Commerce but also in actual business". Explain.
8. You are supplied the following data about heights of boys and girls in a college:

	Boys	Girls
Number	72	38
Average	68"	60"
Variance	9"	4"

you are required to find:

- (a) S.D. of the heights of boys and girls taken together.
- (b) Where heights is more variable.
9. Explain clearly the meaning of 'Time Series Analysis'? Indicate the importance of such analysis in business.
10. What is meant by business forecasting? Discuss briefly the important theories of business forecasting.
11. Compute on appropriate index number for purposes of comparison from the following data:

Year	Rice		Wheat		Jowar	
	Price	Quantity	Price	Quantity	Price	Quantity
2012	4	50	3	10	2	5
2013	10	40	2	2	4	4