

**B.B.A. (2010 Course) Sem- II : WINTER - 2018**  
**SUBJECT : BUSINESS STATISTICS – I**

Day : Monday  
 Date : 26/11/2018

**W-2018-1776**

Time 10.00 AM TO 01.00 PM  
 Max. Marks : 70

**N.B.**

- 1) **Q.1 is COMPULSORY.**
- 2) Attempt any **FOUR** questions from Q.2 to Q.7.
- 3) Figures to the right indicate **FULL** marks.
- 4) Use of non-programmable **CALCULATOR** is allowed.

**Q.1 a)** Define Statistics. Explain its scope in business. **(07)**

**b)** What is an Index Number? What are the uses of Index Number? **(07)**

**Q.2** Calculate mean, median and mode from the following frequency distribution. **(14)**

<b>Classes</b>	10-20	20-30	30-40	40-50	50-60	60-70	70-80
<b>Frequency</b>	8	15	27	51	45	34	20

**Q.3** Draw Histogram and frequency polygon for the following data: **(14)**

<b>Classes</b>	100-110	110-120	120-130	130-140	140-150	150-160	160-170
<b>Frequency</b>	11	28	36	49	33	20	8

**Q.4** Compute Laspeyres's, Paasche's and Fisher's Ideal Index for the following Data. **(14)**

Commodities	Base Year 2000		Current Year 2010	
	Price	Quantity	Price	Quantity
A	16	40	30	40
B	20	60	25	50
C	8	120	15	120
D	4	100	5	100
E	12	50	10	60

**Q.5** Write short notes on **ANY TWO** of the following: **(14)**

- a) Control charts
- b) Absolute and relative measures of dispersion
- c) Skewness and Kurtosis

**Q.6** Calculate median and mean deviation of the following data: **(14)**

<b>Size</b>	0 – 10	10 – 20	20 – 30	30 – 40	40 – 50	50 – 60	60 – 70
<b>Frequency</b>	7	12	18	25	16	14	8

**Q.7** From the prices of shares of X and Y below. Decide which is more stable in value. **(14)**

<b>X</b>	40	50	55	54	56	60	53	49	48	56
<b>Y</b>	102	100	103	105	110	106	104	102	104	105

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