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**Total No. of Questions : 07**

**B.Com. (2013 to 2017 Batch) (Sem.-2)**

# BUSINESS STATISTICS

**Subject Code : BCOP-204**

**Paper ID : [B1120]**

**Time : 3 Hrs.**

**Max. Marks : 60**

**INSTRUCTIONS TO CANDIDATES :**

1. **SECTION-A** is **COMPULSORY** consisting of **TEN** questions carrying **TWO** marks each.
2. **SECTION-B** contains **SIX** questions carrying **TEN** marks each and students have to attempt any **FOUR** questions.

## SECTION-A

**l. Answer briefly :**

- (a) Define business statistics.
- (b) What are limitations of statistics?
- (c) What is primary data?
- (d) What is central tendency?
- (e) What is Median?
- (f) What is Lorenz Curve?
- (g) What is skewness?
- (h) What is Kurtosis?
- (i) What is semi average method?
- (j) What is method of least square?

### SECTION-B

2. Explain correlation in details.
3. Represent the following data by a histogram :

Marks	No. of Students	Marks	No. of Students
0-10	8	50-60	60
10-20	12	60-70	52
20-30	22	70-80	40
30-40	35	80-90	30
40-50	40	90-100	5

4. Calculate the median for the following frequency distribution:

Marks	No. of Students	Marks	No. of Students
45-50	10	20-25	31
40-45	15	15-20	24
35-40	26	10-15	15
30-35	30	5-10	7
25-30	42		

5. From the following table calculate the coefficient of correlation by Karl Pearson method:

X	6	2	10	4	8
Y	9	11	?	8	7

Arithmetic mean of X and Y series are 6 and 8 respectively.

6. What are the components of time series? Explain measurement of trend in details.
7. Assume a four-yearly cycle and calculate the trend by the method of moving averages from the following data relating to the production of tea in India :

Year	Production (m.ibs.)	Year	Production (m.ibs.)
2000	464	2005	540
2001	515	2006	557
2002	518	2007	571
2003	467	2008	586
2004	502	2009	612