7. Explain the meaning and significance of Correlation. Does it always show cause and effect correlation ? What are the properties of Karl Pearson's co-efficient of correlation ?

UNIT-IV

8. Find the trend values by taking 3-years moving average period, for the following time series :

Year	1981	1982	1983	1984	1985	1986
Output (000' units)	38	40	65	72	69	62

Year	1987	1988	1989	1990	1991
Output (000' units)	67	95	104	110	116

9. Explain the uses, limitations and types of Index numbers. How are index numbes constructed ?

Roll No. .....

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B.B.A. 2nd Semester (N.S.) 2014-2017

Examination– May, 2017

Business Statistics

Paper-BBAN-206

Time : 3 hours ***Max. Marks : 80***

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard will be entertained after the examination.

Note : Attempt **compulsory** question No. 1 from Section-A and **four** more questions from Section-B (**one** from each unit). All questions carry equal marks.

SECTION-A

1. Briefly explain the following :

(a) Objectives of classification

(b) Simple bar diagram

(c) Harmonic mean of two numbers a and b

(d) Merits and demerits of mode

(e) Partial correlation

(f) Rank correlation

(g) Growth rate in time series

(h) Factor reversal test

SECTION-B

UNIT-I

2. What are the objectives of Tabulation ? Discuss the parts and types of tables.

3. Discuss the scope, limitations and applications of Statistics.

UNIT-II

4. Find the values of Arithmetic mean, Mode, Median and Q_3 for the following distribution:

Marks	10-20	20-30	30-40	40-50	50-60	60-70	70-80
Number of Students	5	10	18	32	20	10	5

5. Discuss the characteristics of various measures of Variation. Which is the most popular measure ? Why ?

UNIT-III

6. Obtain the two Regression equations from the following data :

$N = 30$, $\sum x = 120$, $\sum y = 90$, $\sum x^2 = 600$, $\sum y^2 = 250$, $\sum xy = 356$.