

9. Find the trend values, by least square method, for each year for the following time series :

Year	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
Profit(ooo Rs)	75	80	98	128	137	119	110	122	126	135	146

Also forecast the profit for 1993.

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Roll No. ....

**57516**

**BBA 2nd Semester (N. S.) 2014-17**

**Examination – April, 2018**

**BUSINESS STATISTICS**

**Paper : BBAN - 206**

*Time : Three Hours ]*

*[ Maximum 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 examination.*

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

**SECTION – A**

1. Briefly explain illustrate the following :

- Limitations of statistics
- Simple bar diagram
- Harmonic mean of 20 and 30

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P. T. O.

- (d) Co-efficient of variation
- (e) Co-efficient of determination
- (f) Significance of correlation
- (g) Irregular movements
- (h) Consumer price index

**SECTION – B**

**UNIT – I**

- 2. Discuss the meaning, objectives, types and limitations of classification. How is it different from tabulation ?
- 3. Using suitable examples, explain and illustrate :
  - (i) Sub-divided bar diagram
  - (ii) Range graph and
  - (iii) Histogram

**UNIT – II**

- 4. Discuss the calculation, merits, demerits of arithmetic mean, median and mode.

- 5. Find the values of (i) Co-efficient of quartile deviation and (ii) Co-efficient of variations for the following distribution :

x	5-15	15-25	25-35	35-45	45-55	55-65
f	12	20	30	22	10	6

**UNIT – III**

- 6. Find the values of Karl Pearson's and spearman's Co-efficients of correlation for the following series :

x	52	53	42	60	45	41	37	38	25	27
y	65	68	43	38	77	48	35	30	25	50

- 7. Differentiate between correlation and regression. What are the properties of regression Co-efficients ? Also highlight the significance of regression.  
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**UNIT – IV**

- 8. Define index numbers. Why are they constructed ? Discuss the process of constructing index numbers.