

Unit III

6. What do you mean by correlation ? Explain its types and importance.
7. For a set of 8 pair reading on X and Y, the coefficient of correlation is 0.65 and the standard deviation of Y. series is 4.2. Find the standard error of Y on X.

Unit IV

8. From the data given below, calculate the Chain Base Index Numbers :
- | | | | | | | | |
|--------|--------|------|------|------|------|------|------|
| Year | : 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
| Prices | : 31 | 22 | 28 | 24 | 30 | 27 | 25 |
- Verify that CBI will be the same as FBI with 2007 as Base.
9. What do you mean by time series analysis ? Explain its importance.

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Roll No.

B-156

B.B.A. EXAMINATION, May 2018

(Second Semester)

(Main & Re-appear)

BUSINESS STATISTICS

BBA112

Time : 3 Hours]

[Maximum Marks : 70

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

Note : Section A is compulsory. Attempt total *five* questions, selecting at least *one* question from each Unit. All questions carry equal marks.

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P.T.O.

Section A

1. Attempt all the ten questions : $2 \times 7 = 14$
- (a) Define the concept of data
 - (b) Explain the concept of presentation.
 - (c) Explain the concept of dispersion.
 - (d) What do you mean by standard deviation ?
 - (e) Define the concept of multiple correlation.
 - (f) What do you mean by standard error of estimate ?
 - (g) Explain the concept of cyclical trend.

Section B

Unit I

2. What do you mean by business statistics ? Explain its scope and importance.
3. Explain the following :
- (i) Explain the importance of classification of data
 - (ii) Explain the different types of frequency distribution.

Unit II

4. (a) Calculate the value of Mode from the following data :

Marks	No. of Students
10-20	4
20-30	6
30-40	20
40-50	32
50-60	33
60-70	17
70-80	8
80-90	2

- (b) Differentiate between harmonic and geometric mean.

5. Goal scored by two teams A and B in a football session were as follows :

No. of Goals Scored : 0 1 2 3 4

No. of matches by A : 27 9 8 5 4

No. of Matches by B : 17 9 6 5 3

Calculating the coefficient of variation in each case.
Find which team may be considered more consistent.