

(Printed Pages 4)

(20518)

Roll No. ....

BBA- II Sem.

18048

B.B.A. Examination, May 2018

Business Statistics

(BBA-204)

(New)

Time : Three Hours ]

[Maximum Marks : 75

Note : Attempt questions from all sections as per instructions.

### Section-A

#### (Very Short Answer Questions)

Note : Attempt all the five questions of this section. Each question carries 3 marks. Very short answer is required not exceeding 75 words.  $3 \times 5 = 15$

1. "Statistics are numerical statements of facts, but all facts numerically stated are not statistics". Discuss and point out briefly.

P.T.O.

2. If Mode and Arithmetic Mean are 30 and 33, calculate the Median in a moderately symmetrical distribution.
3. In which condition, there is only one regression line?
4. If  $b_{xy} = -.4$  and  $b_{yx} = -.9$ , then find  $r$ .
5. What is meant by Standard Error of the Mean.

### Section-B

#### (Short Answer Questions)

Note : Attempt any two questions out of the following three questions. Each question carries  $7\frac{1}{2}$  marks. Short answer is required not exceeding 200 words.

$7\frac{1}{2} \times 2 = 15$

6. What is Sampling? What are the objectives of sampling? Distinguish between 'Parameter' and 'Statistics'.
7. When does a binomial distribution tends to become a Normal and Poisson distribution?

18048/2

8. If Median, Mean and coefficient of Skewness for a certain distribution are respectively 80, 86 and 0.42. Calculate coefficient of variation and variance.

### Section-C

#### (Detailed Answer Questions)

**Note :** This section contains **five** questions, attempt any **three** questions. Each question carries 15 marks. Answer is required in detail.  $15 \times 3 = 45$

9. The number of runs scored by two batsmen Sahbag and Dhoni in different innings is as follows :

Sahbag	12	115	6	73	7	19	119	36	84	29
Dhoni	47	12	76	42	4	51	37	48	13	0

Who is better run getter? Who is more consistent?

10. What do you mean by dispersion? How is it measured? Distinguish clearly between dispersion and skewness.

11. (i) In a game, cards are thoroughly shuffled and distributed equally among four players. What is the probability that a specific player gets all the four kings?  
 (ii) In how many ways can four differently coloured bulbs be arranged in a row?
12. Fit a straight line trend by the method of least squares to the following data :

Year	Production ('000 Qnt)
2001	80
2002	90
2003	92
2004	83
2005	94
2006	99
2007	92

Show the above series and the trend on the graph paper.

13. What do you mean by correlation? Distinguish between positive and negative correlation. What are different methods of studying correlation?