

**ADDITIONAL EXAM FOR SPORT STUDENTS**  
**BACHELOR OF BUSINESS ADMINISTRATION (CBCS - 2018 COURSE)**  
**B.B.A. Sem-II : WINTER- 2022**  
**SUBJECT : BUSINESS STATISTICS**

Day : Tuesday  
 Date : 17/1/2023

**W-18819-2022**

Time : 10:00 AM-01:00 PM  
 Max. Marks : 60

**N.B.:**

- 1) Attempt **ANY THREE** questions from Section-I. Each question carries 10 marks.
- 2) Attempt **ANY TWO** questions from Section-II. Each question carries 15 marks.
- 3) Answers to both the sections should be written in **SAME** answer book.
- 4) Use of non-programmable **CALCULATOR** is allowed.

**SECTION-I**

**Q.1** Define the terms Correlation and Regression. Distinction between Correlation and Regression.

**Q.2** Calculate mean, median and mode for the following data.

Marks	10-20	20-30	30-40	40-50	50-60	60-70	70-80
No. of students:	6	12	20	25	13	8	3

**Q.3** Two fair dice are thrown. Find the probability that

- i) The total score is 10
- ii) Sum of the scores is a prime number.

**Q.4** Find the association between literacy and unemployment from the following data and comment on the result

Total Adults:	10000
Literate:	1290
Unemployed:	1390
Literate Unemployed:	820

**Q.5** Write short notes on (**ANY TWO**):

- a) Scatter Diagram
- b) Quartiles, deciles and percentiles
- c) Conditional probability

**SECTION-II**

**Q.6** From the data given below find:

- i) The two regression equations.
- ii) The coefficient of correlation between the marks in Economics and Statistics.
- iii) The most likely marks in Statistics when marks in Economics are 30.

Marks in Economics	25	28	35	32	31	36	29	38	34	32
Marks in Statistics:	43	46	49	41	36	32	31	30	33	39

**Q.7** Calculate coefficient of variation from following data and state which batsman is more consistent.

Score of A	32	28	47	63	71	39	10	62	96	14
Score of B	19	31	48	53	67	90	10	62	40	80

**Q.8** A textile mill produces cloth in three different shades blue, green and yellow. The production of these shades is 30%, 50% and 20% respectively of the total production. From past experience it is seen that 2%, 3% and 4 % of blue, green and yellow shades are defective respectively. On general inspection of entire production a specimen is selected at random and found to be defective. Find the probability that

- i) It is of blue shade.
- ii) It is of green shade.
- iii) It is of yellow shade.