

BACHELOR OF COMPUTER APPLICATIONS (CBCS - 2018 COURSE)

B.C.A. Sem-III : : SUMMER - 2022

SUBJECT : STATISTICS

Day : Tuesday
Date : 31-05-2022

S-18770-2022

Time : 02:00 PM-05:00 PM
Max. Marks : 60

N.B.

- 1) **Q.No. 4** from Section-I is **COMPULSORY**.
- 2) Attempt **ANY TWO** questions from Q.No. 1 to Q. No. 3 in Section – I.
- 3) Attempt **ANY TWO** questions from Q.No. 5 to Q. No. 7 in Section – II.
- 4) Figures to the **RIGHT** indicate **FULL** marks.
- 5) Answers to both the sections should be written in **SAME** answer book.

SECTION – I

Q.1 Define Statistics. Explain the applications of Statistics in various fields. (12)

Q.2 Calculate mean, median and mode for the following data : (12)

Classes	10-20	20-30	30-40	40-50	50-60	60-70	70-80
Frequency	05	20	40	55	30	15	5

Q.3 The runs scored by two batsmen A and B in ten innings are as below : (12)

A	10	115	5	73	7	120	36	84	29	19
B	45	12	76	42	4	50	37	48	13	10

Calculate S.D. and Coefficient of Variation.

Q.4 Write short notes on **ANY TWO** of the following : (12)

- a) Karl Pearson's coefficient of correlation
- b) Deciles, percentiles and quartiles
- c) Ogive curves

SECTION – II

Q.5 What is primary data and secondary data? Explain various primary data collection methods in brief. (12)

Q.6 In a beauty contest three judges have ranked 10 candidates as follows : (12)

Candidate	A	B	C	D	E	F	G	H	I	J
Judge I	6	1	4	8	7	5	3	10	9	2
Judge II	3	5	6	1	8	2	4	10	9	7
Judge III	1	2	3	4	5	6	7	8	9	10

Using rank correlation coefficient find which pair of judges have nearest approach towards beauty?

Q.7 What is time series analysis? Explain various components of time series. (12)
