BACHELOR OF COMPUTER APPLICATIONS (CBCS - 2018 COURSE)
B.C.A. Sem-III : WINTER- 2022
SUBJECT : STATISTICS

Day : Monday

Date : 5/12/2022

W-18770-2022

Time : 10:00 AM-01:00 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 limitations of Statistics. **(12)**

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

Marks :	0	1	2	3	4	5	6	7	8
No. of boys:	7	10	16	17	26	31	11	2	1

Q.3 Calculate Karl Pearson's coefficient of correlation for the following data : **(12)**

X :	100	200	300	400	500	600	700
Y :	30	50	60	80	100	110	130

Q.4 Write short notes on **ANY TWO** of the following : **(12)**
   a) Scope of statistics
   b) Graphical representation of data
   c) Deciles, percentiles, quartiles

SECTION – II

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

Q.6 i) Find two regression equations for the following two series. **(12)**
   ii) What is the most likely value of x when y = 20
   iii) What is the most likely value of y when x = 22.

X:	35	25	29	31	27	24	33	36
Y:	23	27	26	21	24	20	29	30

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

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