CDOE
BACHELOR OF COMPUTER APPLICATIONS (CBCS-2019 COURSE)
B.C.A. SEM - III : WINTER :- 2021
SUBJECT: STATISTICS

Day : Friday
Date 18-02-2022   W-21870-2021

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

N.B.:

1) Attempt any **THREE** questions from Section –I and any **TWO** questions from Section –II.
2) Figures to the right indicate **FULL** marks.
3) Answers to both the sections should be written in **SAME** answer book.
4) Use of non-programmable **CALCULATOR** is allowed.
5) Use graph papers **WHEREVER** necessary.

SECTION-I

Q.1 Define Statistics. Explain importance of statistics in Business and Management. **(12)**

Q.2 Draw histogram and frequency polygon for the following data: **(12)**

Marks obtained	0-10	10-20	20-30	30-40	40-50	50-60
No. of Students	20	50	80	100	70	10

Q.3 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	10	28	32	60	34	20	16

Q.4 Calculate standard deviation for the data given below: **(12)**

X	4	5	6	7	8	9	10
f	3	7	22	60	85	32	8

Q.5 Write short notes on any **TWO** of the following: **(12)**

a) Pie diagram
b) Sources of Primary data
c) Spearman's Rank correlation

SECTION-II

Q.6 Calculate Karl Pearson's coefficient of correlation from the following data: **(12)**

X	5	8	9	11	12	15
Y	8	7	10	13	11	17

Q.7 Obtain two regression equations for the following data given below: **(12)**

X	32	28	47	63	71	39	10	60	96	14
Y	49	57	30	45	50	32	51	39	55	52

Q.8 Explain various components of Time Series Analysis. **(12)**

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