

MASTER OF COMPUTER APPLICATIONS (CBCS - 2020 COURSE)
M.C.A. Sem-I : WINTER : 2021
SUBJECT: COMPUTATIONAL STATISTICS

Day : Friday
Date : 21-01-2022

W-22724-2021

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 right indicate **FULL** marks.
- 3) Answer to both sections should be written in **SAME** answer book.
- 4) Use of non-programmable **CALCULATE** is allowed.

SECTION-I

Q.1 Explain Primary and Secondary data in statistics. **(10)**

Q.2 Calculate Quartile deviation from the following data: **(10)**

Classes	0-5	5-10	10-15	15-20	20-25	25-30
Freq.	2	8	5	20	10	5

Q.3 Calculate mean, median and mode for the following data: **(10)**

Classes	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90
Freq.	7	15	18	25	30	20	16	19

Q.4 Explain various types of skewness with appropriate examples. **(10)**

Q.5 Write short note on **(ANY TWO)**: **(10)**

- a) Concept of R. programming
- b) Harmonic mean
- c) Cumulative Frequency Distribution.

SECTION-II

Q.6 Calculate Spearman's Rank correlation coefficient between X and Y. **(15)**

X	42	44	58	55	89	98	66
Y	56	49	53	58	65	76	58

Q.7 For the data given below, find: **(15)**

- a) The two regression equations.
- b) The coefficient of correlation between X and Y.
- c) The most likely value of Y when X= 30.

X	25	28	35	32	31	36	29	38	34	32
Y	43	46	49	41	36	32	31	30	33	39

Q.8 Explain the following:

- a) Components of time series. **(08)**
- b) Characteristics of good measure of dispersion. **(07)**