

S.D.E.

M.C.A. Sem – II (CBCS - 2018 Course) : SUMMER - 2019

SUBJECT: STATISTICAL TECHNIQUES

Day : Thursday

Time: 02.00 P.M. TO 05.00 P.M.

Date : 09/05/2019

Max. Marks: 70

S-2019-5248

N.B.

- 1) Attempt **ANY FOUR** questions from Section – I and **ANY TWO** questions from Section - II.
- 2) Figures to the **RIGHT** indicate **FULL** marks.
- 3) Answer to both the sections should be written in **SAME** ; answer book.
- 4) Use of non-programmable calculator is allowed.

SECTION – I

Q.1 What is statistics? Explain scope of statistics in brief. (10)

Q.2 Find mean, median and mode for the following data : (10)

Marks (x)	10-20	20-30	30-40	40-50	50-60	60-70
Freq. (f)	13	18	27	10	5	2

Q.3 Calculate mean deviation for the following data : (10)

Classes	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80
f	5	8	7	12	28	20	10	5

Q.4 From the following table calculate Karl Pearson's coefficient of correlation. (10)

X	6	2	10	4	8
Y	9	11	5	8	7

Q.5 In a certain interview there were 126 candidates, of which 70 were boys. 36 candidates were successful, among them 20 were boys. Calculate coefficient of association Q. (10)

Q.6 Write short notes on **ANY TWO** of the following. (10)

- a) Quartiles and Deciles
- b) Geometric mean
- c) Components of a time series

SECTION – II

Q.7 From the data given below : (15)

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

Find :-

- 1) The two regression equations.
- 2) The marks in statistics when marks in economics is 30.
- 3) The marks in economics when marks in statistics is 40.

Q.8 What is frequency distribution? Explain cumulative frequency and relative frequency distribution with suitable examples. (15)

Q.9 State and explain the statistical organizations in India with their functions. (15)

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