

S.D.E.  
B.C.A. (2004 Course) Sem - IV WINTER - 2018  
COMPUTER ORIENTED STATISTICAL METHODS

Day: Tuesday  
Date: 11/12/2018

W-2018-4523

Time: 10.00 AM TO 1.00 PM  
Max. Marks: 80

- 1) Attempt ANY FIVE questions from Section-I and attempt ANY TWO from Section-II.
- 2) Figures to the right indicate FULL marks.
- 3) Answers to both the sections should be written in the SEPARATE answer books.
- 4) Use of non-programmable CALCULATOR is allowed.

SECTION-I

Q.1 Define 'Statistics' and discuss its uses and limitation. (10)

Q.2 From a frequency distribution from the following data by Inclusive method (10) taking 4 as magnitude of class- Intervals.  
10, 17, 15, 22, 11, 16, 19, 24, 29, 18, 25, 26, 32, 14, 17, 20, 23, 27, 30, 12, 15, 18, 24, 36, 18, 15, 21, 28, 33, 38, 34, 13, 10, 16, 20, 22, 29, 19, 23, 31

Q.3 The following table gives the weights of 31 persons in a sample enquire. (10) Calculate the mean weight using Geometric mean and Harmonic mean

Weight	130	135	140	145	146	148	149	150	157
No. of persons	3	4	6	6	3	5	2	1	1

Q.4 Calculate the mean and standard deviation from the following data. (10)

Value	90-99	80-89	70-79	60-69	50-59	40-49	30-39
Frequency	2	12	22	26	14	4	1

Q.5 Calculate Karl Pearson's Co-efficient of skewness from the following data. (10)

Size	1	2	3	4	5	6	7
Frequency	10	18	30	25	12	3	2

Q.6 Explain Graphical Representation of Data. (10)

Q.7 Write short notes on ANY TWO of the following: (10)

- a) Primary and secondary data
- b) Properties of Regression Coefficient
- c) Need of statistics

P.T.O.

**SECTION-II**

**Q.8** From the data given below find: **(15)**

- a) The two regression coefficients
- b) The two regression equations

Marks in Economics	25	28	35	32	31	36	29	38	34	32
Marks in statistics	43	46	49	41	36	32	37	30	33	39

**Q.9** Find mean, median, mode from the following data **(15)**

Earnings	66-67	67-68	68-69	69-70	70-71	71-72
No. of Persons	15	24	40	20	14	11

**Q.10** a) The sales of a company its million of rupees for the year 1994-2001 are given **(08)**  
below.

Year	1994	1995	1996	1997	1998	1999	2000	2001
Sales	550	560	555	585	540	525	545	585

- i) Find the linear trend equation.
- ii) Estimate the sales for the year 1993.

b) Explain components of Time Series. **(07)**

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