DISTANCE EDUCATION

B.C.S. DEGREE EXAMINATION, DECEMBER 2010.

BUSINESS STATISTICS

(1999 onwards)

Time : Three hours   Maximum : 100 marks

PART A — (5 × 8 = 40 marks)

Answer any FIVE questions.

1. What are the important aspects to be considered by an investigator before using secondary data?

2. Distinguish between primary data and secondary data.

3. State the important rules of classification.

4. What are the objectives of calculating averages?

5. Calculate arithmetic mean from the following data :

x :	0-10	10-20	20-30	30-40	40-50	50-60
y :	27	32	57	73	61	46

6. Compute Geometric mean from the following data :

Marks :	0-10	10-20	20-30	30-40	40-50	50-60	60-70
No. of Students :	5	7	12	8	9	5	4

7. Compute Quartile deviation from the following data :

Daily-wages :	0-10	10-20	20-30	30-40	40-50	50-60	60-70
No. of Workers :	11	15	17	19	20	5	4

8. Construct the cost of living index number from the following :

Group:	A	B	C	D	E
Index :	350	200	240	150	250
Weight	5	2	3	1	2

PART B — (4 × 15 = 60 marks)

Answer any FOUR questions.

9. What is sampling? Explain the important methods of sampling.

10. Discuss the problems in the construction of index numbers.

11. Explain the different types of average.

12. Calculate the standard deviation from the following data :

Marks :	0-10	10-20	20-30	30-40	40-50	50-60	60-70
No. of Students :	5	12	30	45	50	37	21

13. The arithmetic mean of the following distribution is 58.5 units. Find the missing frequency :

Sales (in units) :	35-45	45-55	55-65	65-75	75-85	85-95
No. of factories :	21	?	30	15	17	10

14. Calculate 'Karl Pearson's Co-efficient of correlation from the following data :

x :	25	10	20	32	50	28	26	14	12	13
y :	15	12	19	26	23	22	13	10	15	5

15. From the following data, obtain the regression equations.

x :	6	9	12	5	8	14
y :	5	20	15	12	9	11

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