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Total No. of Pages: 02
Total No. of Questions: 07

B. COM(PRO.) (SEM.2ND)
BUSINESS STATISTICS

Subject Code: BCOP-204

Paper ID: B1120

Time: 3 Hrs.

Max. Marks: 60

**Note: Section A is compulsory. Attempt all questions (Short answer) form
Section A, each question carries 2 marks.**

SECTION – A

Q.I.

- (a) What is the definition of statistics?
- (b) What are the main limitations of statistics?
- (c) What is direct personal investigation method of collection of data?
- (d) What precautions should be taken in classification of data?
- (e) What are the advantages of diagrammatic presentation of data?
- (f) Define mode.
- (g) What is negative correlation?
- (h) Define regression.
- (i) What is the meaning of time series?
- (j) What is Lorenz curve?

SECTION – B

**Note: Attempt any four questions from section B, each question carries
10 marks.**

QII What is secondary data? What are the main sources of secondary data?

QIII Find out arithmetic mean from the following data:

X	10-20	20-30	30-40	40-50-	50-60	60-70	70-80	80-90	90-100
F	20	10	5	15	2	18	15	5	10

QIV Calculate standard deviation from the following distribution:

Age	20-25	25-30	30-35	35-40	40-45	45-50
No. of Persons	170	110	80	45	40	35

QV Calculate Karl Pearson's coefficient of correlation between the age of husband and age of wife from the following:

Age of husband	39	65	62	90	82	75	25	98	36	78
Age of wife	47	53	58	86	62	68	60	91	51	84

QVI From the following data obtain regression equations of x on y:

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

QVII Year wise distribution of population in a village is given. Calculate 3 yearly moving average of population.

Year	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
population	2013	2691	2932	2937	4921	2275	2234	2606	2315	2019	3389

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