

Roll No.

Total No. of Pages : 02

Total No. of Questions : 07

BBA (2009 to 2011 Batch) (Sem.-3)

BUSINESS STATISTICS

Subject Code : BB-304

Paper ID : [C0216]

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :

1. **SECTION-A** is **COMPULSORY** consisting of **TEN** questions carrying **TWO** marks each.
2. **SECTION-B** contains **SIX** questions carrying **TEN** marks each and a student has to attempt any **FOUR** questions.

SECTION-A

I. Write short note on all of following :

- a) Coefficient of Range
- b) Harmonic Mean
- c) Consumer Price Index
- d) Spearman's Rank Correlation
- e) Properties of Regression Coefficient
- f) Seasonal variations of Time series
- g) Mutually exclusive events
- h) Fisher's Ideal Index
- i) Assumptions of Poisson distribution
- j) Applications of Bayes' Theorem

SECTION – B

2. Write a detailed note on various methods of graphical presentation of data.
3. Determine the value of Q_3 , D_6 and P_{80} for following series :

Age	20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60
No. of Persons	60	80	90	150	180	130	140	60

4. What do you mean by Regression analysis? Discuss the difference between regression and correlation.
5. Explain the term probability. Critically evaluate various approaches of probability also.
6. In a factory, weights of 4000 workers are found to be normally distributed with mean weight of 50 kgs and standard deviation of 5 kgs. Find the numbers of workers having weight :
 - (a) Less than 45 Kgs
 - (b) Between 45 to 60 Kgs
 - (c) Above 65 kgs
7. Calculate Karl Pearson's coefficient of correlation between following variables :

Marks in Accounting	77	54	27	52	14	35	90	25	56	60
Marks in Statistics	35	58	60	40	50	40	35	56	34	42