Subject Code—779

B.B.A. (Second Year) EXAMINATION

(Re-appear)

(New Scheme)

BBA-202

BUSINESS STATISTICS

Time : 3 Hours   *Maximum Marks :* 100

Note : Attempt any *Five* questions. All questions carry equal marks.

1. Define the term 'Statistics'. What are its functions and limitations ?

2. Define range, quartile deviation, mean deviation and standard deviation. Discuss their relative merits and demerits.

3. What is Correlation Analysis ? Explain the rank method for computation of the coefficient of correlation.

(1-11)   **P.T.O.**

4. Given the regression line of x on y :

$$x = 0.85\ y.$$

the regression line of y on x :

$$y = 0.89\ x,\ \sigma_x = 3$$

Find out (a) σ_y, (b) r.

5. A class consists of 10 boys and 8 girls. A committee of three students is constituted. What is the probability that the committee has (a) all boys, (b) all girls, (c) one boy and two girls, (d) at least one girl.

6. Define the probability function of a binomial distribution. What are the mean and variance of the distribution ? What are the conditions for a distribution to be normally distributed ?

7. Critically examine the non-probability methods of sampling.

8. Explain meaning and significance of Time Series Analysis. Describe least square method.

9. What are the uses of Index Numbers ? Describe various methods of constructing the index numbers.

10. Write notes on the following :

   (a) Skewness

   (b) Poisson Distribution,