

Roll No _____

Total No of pg: 3

May-2014
B.Com (Professional)2014(Sem -3)
Business Statistic
Subject code :BCOP 204
Paper ID(B1120)

Time: 3Hrs.

Max marks: 60

Instructions to Candidates:

- (I) All questions of Section –A are compulsory Each question carry two marks.
 (II) Attempt any four questions from Section-B Each question carry ten marks.

Section- A

(10X2=20)

- (Q1)(a) Distinguish between primary data and secondary data
- (b) What is an Ogive? How it is constructed.
- (c) Find out median from the following 5,7,9,12,10,8,7,15,21.
- (d) If the regression coefficients of X on Y is $-1/6$ and that of Y on X is $-3/2$, find the value of correlation coefficient between X and Y
- (e) Write Components of Time Series.
- (f) Find H.M from the following data X= 32 35 36 58 61 73.
- (g) Given sum of squares of items =2430
 $X=7$ and $N=12$ Find the coefficient of variation.
- (h) What is the difference between correlation and regression?
- (i) Given to regression equation $8X-10Y+66=0$ and $40X-18Y=214$ Find \bar{X} and \bar{Y}
- (j) Calculate coefficient of correlation when Covariance of X and Y is 488 and Variance of X is 824 and Variance of Y is 325.

Section –B

Q2. From the following data calculate coefficient of correlation between the age of Students and their playing habits.

Age(year) 15, 16, 17, 18, 19, 20.

No of Students 250, 200, 150, 120, 100, 80.

Regular players 200, 150, 90, 48, 30, 12.

Q3. Fit a straight give trend to the following data:

Year 1971 1972 1973 1974 1975

(production In 600 tones) 20 24 16 20 28

In 600 tones)

Estimate the production for the year 1977

Q4 From the data given below find

(a) Two regression equahans (b) The most Likely marks in statistics ,When marks in Economics are 30 (c) Also find coefficient of correlation between the two.

Marks in Economics 25 28 35 32 31 36 29 38 34 32

Marks in Statistics 43 46 49 41 36 32 31 30 33 39

Q5. The median and mode of the following wage distribution are known to be Rs. 33.5 and Rs.34 respectively. Three frequency values from the table are however missing. Find out the missing frequencies when sum of frequencies is 230.

Wages(Rs.) 0-10, 10-20, 20-30, 30-40, 40-50, 50-60, 60-70

No of parsons 4, 16, -----, -----, -----, 6 4

Q6 Give the definition of statistics and discuss is scope and limitations.

Q7 (a) Calculate Bowley's coefficient of Shawnees from the following data:

Marks (below) 10, 20, 30, 40, 50, 60,

No of students 10, 30, 60, 110, 150, 180

(b) Cellulite S D From the flowing

Marks (below) 20 40 60 80 100

No of Students 8 20 50 70 80