http://www.cdluonline.com

- 10. Solve the following:
 - (a) Two dice are tossed. What is the probability that the total is divisible by 3 or 4?
 - (b) A student applies for a job in two firms X and Y. The probability of his being selected in firm X is 0.7 and being rejected in the firm Y is 0.5. The probability of at least one of his applications being rejected is 0.6. What is the probability that he will be selected in one of the firms?

(01/13-II)

4064

B. Com. (Second Year) EXAMINATION

BUSINESS STATISTICS

Fourth Paper

Time: Three Hours

Maximum Marks: 80

Note: Attempt only *Five* questions, selecting *one* question from each Unit. All questions carry equal marks.

Unit I

- What do you mean by statistics? Explain its functions and scope.
- 2. Explain the following:
 - (a) Properties of regression coefficient
 - (b) Find regression equation X and Y from the following data:

X : 20 22 24 26 28 30 32

Y : 30 35 38 45 52 60 55

http://www.cdluonline.com

- 3. From the following information find out:
 - (a) Which factory pays larger amount as daily wages?
 - (b) What is average daily wage of workers of two factories taken together?
 - (c) Explain the characteristics of good average:

	Factory A	Factory B	
No. of wage earners	250	200	
Average daily wages	Rs. 2	Rs. 2.50	

Unit II

- Explain the concept of index numbers. Discuss the problems in the construction of index numbers.
- Calculate the Laspeyre's, Paasche's and Fisher's price index the following information:

Expenses	A	В	C	D
Prices (2005) Rs.	40	50	70	20
Prices (2007) Rs.	60	60	90	10
Quantity (2005)	3	4	2	3
Quantity (2007)	2	4	5	5

- 6. From the following data of production of a factory in ('000) tonnes:
 - (a) Fit a straight line trend by method of least square and show the trend values
 - (b) Convert your annual trend equation into a monthly trend equation
 - (c) What is rate of growth of production per month?

Year : 1997 1998 1999 2000 2001 2002 2003

Production: 70 75 90 91 95 98 100

Define a time series. How is it useful? Explain the various components of a time series.

Unit III

- Define probability and explain the approaches to probability. Also discuss its applications in business.
- Differentiate between binomial and Poisson probability distributions.

(2-77)4064

3

P.T.O.