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SECOND YEAR B.Com. DEGREE EXAMINATION, MARCH/APRIL 2006

Part III-Commerce

Paper I—BUSINESS STATISTICS

ime : Three Hours

Maximum: 80 Marks

Answers may be written either in English or in Malayalam.

Part A

Answer any ten questions. Each question carries 1 mark.

- Define Statistics.
- What is secondary data?
- What is Stub?
- What is infinite population?
- What is mode?
- What do you mean by "Platykurtic"?
- Probability of an event is given as .84. Comment
- Why is Fisher's index called ideal index?
- What would be your interpretation if correlation coefficient r = -1?
- State the formula for combined mean.
- Define Time Series. 11.
- What do you mean by simple correlation? 12.

 $(10 \times 1 = 10 \text{ mark})$

Part B

Answer any ten questions. Each question carries 4 marks.

- Point out some advantages of sampling.
- 14. What do you mean by Systematic sampling?
- 15. What are the essential characteristics of a good average?
- 16. "Statistics affects everybody and touches life at many points." Comment.
- 17. What is Scatter diagram?
- 18. What are the uses of Index Numbers?
 - gen weight of 200 gms. If an apple weighing 250 gms.
 - 13. Point out some advantages of sampling.
 - What do you mean by Systematic sampling?

20. Calculate median of the following data: 70 60 50

198 96 127 20 Wage (less than) Rs.: 10 60 84

80

250

No. of workers : 15 55 35 21. If N=10, $\overline{X}=12$, $\Sigma X^2=1530$, find coefficient of standard deviation and coefficient of 21. If N=10, $\overline{X}=12$, $\Sigma X^2=1530$, find coefficient of standard deviation and coefficient of 21. If N=10, $\overline{X}=12$, $\Sigma X^2=1530$, find coefficient of the following series under a three year weighted moving a_{V_0} .

weights 1, 2, 1 respectively:

5 Year : 1 13 10 8 7

23. If P(A) = .5, P(B) = .6 and $P(A \cap B) = .2$, find (a) $P(A \cup B)$; (b) P(A').

The following particulars are given:

Y X

85 36 Arithmetic mean

11 Standard deviation ...

Correlation coefficient between X and Y = 0.66 State the two regression equations. $(10 \times 4 =$

Part C

Answer any two questions.

Each question carries 15 marks.

25. Find Karl Pearson's coefficient of Skewness from the following data :-

Size 10 12 15 18

Frequency 3 14 20 13 2

- 26. Two urns contain respectively (10 white, 6 red and 9 black balls) and (3 white, 7 read an balls). One ball is drawn from each urn. Find the probability that (a) both balls are red red and one is black; (c) both balls are of the same colour.
- The budget of middle class families in Kozhikode city gave the following details:-

	Expenses	Food	Dans	^,	the following details		
	Price (2004)		Rent	Clothing	Fuel	Miscellaneous	
	Price (2005) .	150	30	75	25		
	Woight		30	65		40	
Cama		35	15	20	23	45	
Comme	nt on the changes	in cost o		20	10	20	

cost of living of 2005 when compared with 2004.