ent mon maineri 2023

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07-00 00-02-04-04 ( FYUGP )

( 3rd Semester )



## COMMERCE

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Paper Code: BC/C5

( Business Statistics )

Full Marks: 75
Pass Marks: 40%

Time: 3 hours

The figures in the margin indicate full marks for the questions

1. (a) Define statistics. Explain the functions of statistics. 5+10=15

4. (a) Construct index number of price from

(b) Explain the various methods of collecting primary and secondary data.

8+7=15

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(Turn Over)

(a) Calculate mean and median from the following:

Marks 9-10 10-20 20-30 30-40 40-50 50-60 60-70

*(b)* Explain the various types of average. Also give its merits and limitations.

7+8=15

ώ (a) Calculate Karl Pearson's coefficient of correlation from the following data:

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Supply ( in ₹) : 10 212 Price (in ?) : 4 5 13 15 10 20

13+2=15

Interpret your result.

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regression analysis. *(b)* Explain the uses of regression analysis. Distinguish between correlation and of atatistics.

(a) Construct index number of price from the following data by applying: 15

(i) Laspeyres' method 8 11 2010 100

(ii) Paasche's method

(Continued)

(iii) Bowley's method

(iv) Fisher's ideal method

. D	C	В	A	Commodity	
2	4	S	2	Price	2021
19	14	10	8	Quantity	
2	5	6	4	Price	2022
13	10	5	6	Quantity	

9

(b) Explain the various components of time series. 15

(a) Explain the concept and importance of probability. 7+8=15

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(b) A bag contains 30 balls numbered from of the balls drawn be a multiple of-Find the probability that the number 1 to 30. One ball is drawn at random

(i) 5 or 7

(ii) 3 or 7

15

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