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K24U 4081

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First Semester B.B.A./B.B.A.(RTM/AAM) Degree (C.B.C.S.S. - OBE-Supplementary/Improvement) Examination, November 2024 (2019 to 2023 Admission)

Complementary Elective Course 1C01BBA/BBA(RTM/AAM) : STATISTICS FOR BUSINESS DECISIONS

Time: 3 Hours

Answer and A questions, each grestion dark Max. Marks: 40 15. Explain the sources of secondary c

Draw a frend line by the method

What is (i) time reversal test,

index number satisfies both time

5x = 125, n = 25, 5x² = 850. 5V≥

Instruction : Use of calculator is permitted. boilowing data and

PART - A (Short Answer)

Answer all questions, each question carries one mark.

- 1. Comment on the following "Statistics are aggregate of facts" (arbit 1.28) 2012
- 2. Write the additive model of time series.
- 3. Define Laspeyres index number.
- 4. Define chain base index number.
- 5. When the correlation is said to be zero? Write the range of correlation.
- 6. Write the formula of regression equation of y on x in terms of correlation coefficient. aniwoflot ent benisted anounced to are a following. Inexpendent coefficient.

PART - B (Short Essay)

found that he had copied down to Answer any 6 questions, each question carries two marks. correct pairs were (8, 12) and (6, 8). Obtain

- 7. What are the types of classification?
- 8. What is the difference between population and sample ? Write an example What do you mean by cause and effect method? How we find the mechase not
- 9. Explain secular trend in time series. Il noisserper owt ent most y bits x to seular
- 10. What do you mean by periodic changes in time series data?



4. Define chain base index number

5. When the correlation is said to be zero'

- 11. Explain quantity index number.
- 12. Check whether Paasche's index number satisfy time reversal test.
- 13. What are the different types of correlation?
- 14. Explain the features of Spearman's correlation coefficient. (6×2=12) (2019 to x423 Agritselen)

Complementario PART Continental Course 10018BA/BBA/RTM/AAM): STATI (VEZZZ) OR BILLINESS DECISIONS

Answer any 4 questions, each question carries 3 marks.

- 15. Explain the sources of secondary data.
- 16. Draw a trend line by the method of semi averages to the following data and estimate the sales for the year 2000.

1992 1993 1994 1995 1996 1997 1998 1999 Hangward Year:

Sales (Rs. Lakhs): 412 438 444 454 470 482 490 500

- 17. What is (i) time reversal test and (ii) factor reversal test? Prove that Fisher index number satisfies both time reversal test and factor reversal test.
- 18. Explain the uses of index number.
- 19. A computer operator while calculating the correlation coefficient between two variates x and y for 25 pairs of observations obtained the following.

 $\Sigma x = 125$ , n = 25,  $\Sigma x^2 = 650$ ,  $\Sigma y = 100$ ,  $\Sigma y^2 = 460$ ,  $\Sigma xy = 508$ . It was later found that he had copied down two pairs as (6, 14) and (8, 6) while the correct pairs were (8, 12) and (6, 8). Obtain the correct value of the correlation What are the types of classification? coefficient. 8. What is the difference between population and sample? Write an example

20. What do you mean by cause and effect method? How we find the mean second values of x and y from the two regression lines. as a mit ni board refuse (4×3=12)

10. What do you mean by periodic changes in time series data?