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KANING OT. 670511:

K24FY1307 (B)

## First Semester FYUGP Management Studies Examination NOVEMBER 2024 (2024 Admission onwards) KU1DSCBBA102 (BUSINESS STATISTICS)

(DATE OF EXAM: 4-12-2024)

Time: 120 min Maximum Marks: 70 Part A (Answer any 6 questions. Each carries 3 marks) 1. Define Geometric Mean 2. Define Harmonic Mean Answer and 2 quarterys). Each cornered marks 3. Define Cyclical Variations When reache sources of allocates because out a Explain the advantages and 4. Explain the method of Least Squares . First variational maintains to sole a 3 evident 5. What is Line of Best-Fit? contours on a sign of all the training the paragraphs 3.5 and 2.4 6. Mention the uses of Correlation 7. What is meant by Perfect Correlation? The first sould be almost the state of the mercural poli la spedanca Stolla 8. What are Dependent and Independent variables Part B (Answer any 4 questions. Each carries 6 marks) 9. What is the purpose of Time Series analysis? 10. What are the limitations of Time Series Analysis? 11. Find the trend equation from the following information: n = 8,  $\sum y = 47.8$ ,  $\sum x = -12$ ,  $\sum x^2 = 60$ ,  $\sum xy = 67.4$ 6

12. Find out the Coefficient of Correlation between X & Y:

Y
15
10
6
25
16
12
8

13. What is Regression Line? Explain its uses.

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2. Define Harmonic Mean

14. By using the following information, obtain the two regression equations:

ion onwards) PATISTICS) 24)	X 15 18	Y 10 11	NOVEMBER 2024 (2024 A KUIDSCÉBA102 (BUSINI (DATE OF EXAM:	
		16		
Maximum Marks: 70	31			Time: 12
marks)			A (Answer any 6 questions. Each c	Part,
3	19 35	11 24	ne Geometric Mean	1. Defr

Part C (Answer any 2 question(s). Each carries 14 marks)

- 15. What are the sources of collecting Secondary data? Explain the advantages and disadvantages of using Secondary data. Explain the advantages and disadvantages of using Secondary data.
- 16. What is frequency distribution? Give the steps in construction of frequency distribution bution

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  16. What is frequency distribution? Give the steps in construction of frequency distribution?
- 17. Calculate the Standard Deviation (SD) regarding the age distribution of 542 members of Parliament:

Age (Years)	Frequency
20 - 30	3 (837
30 - 40	61
40 - 50	132
50 - 60	153
60 🗗 70	140
70 - 80	51
80 - 90	2

- 8. What are Dependent and Independent variables
- Part B (Answer any 4 questions. Each carries 6 m
  - 9. What is the purpose of Time Series analysis?
  - 10. What are the limitations of Time Series Analysis?
  - 11. Find the trend equation from the following information:

$$n = 8$$
,  $\sum y = 47.8$ ,  $\sum x = -12$ ,  $\sum x^2 = 60$ ,  $\sum xy = 67.4$ 

12 Find out the Coefficient of Correlation between X & Y: