SHIVAJI COLLEGE, UNIVERSITY OF DELHI DEPARTMENT OF ECONOMICS

INTERNAL TEST (Academic Year 2023-24)

(Academic Year 2023-24)

Name of the Course : B.A. program Semester : V
Name of the Paper : Data Analysis Maximum Marks : 10
Faculty Name : Ajay Last Date of Submission: 17th

October

Instructions:

Choose the most appropriate answer for each question.

Mark your choice by circling the corresponding letter (A, B, C, or D).

Each question carries same weight.

- 1. What does a negative correlation coefficient indicate?
 - a) A strong relationship between variables
 - b) No relationship between variables
 - c) A weak positive relationship between variables
 - d) A weak negative relationship between variables
- 2. Which correlation coefficient is used when dealing with non-linear relationships?
 - a) Pearson correlation coefficient (r)
 - b) Spearman rank correlation (ρ)
 - c) Kendall's tau
 - d) Cronbach's alpha
- 3. In simple random sampling, what is the primary purpose of assigning each member of the population a unique number?
 - a) To ensure that outliers are included in the sample
 - b) To reduce sampling bias
 - c) To simplify the sampling process

d) To ensure that every individual has an equal chance of being selected
4. Which of the following is an example of non-probability sampling?
a) Stratified sampling
b) Convenience sampling
c) Systematic sampling
d) Cluster sampling
5. What does the standard deviation measure in a dataset?
a) Central tendency
b) Variability or dispersion
c) Skewness
d) Kurtosis
6. In a linear regression analysis, what does a low R-squared value indicate?
a) A strong linear relationship between the variables
b) A weak linear relationship between the variables
c) A negative linear relationship between the variables
d) A high degree of multicollinearity
7. What is the primary purpose of an ogive in data analysis?
a) To display the cumulative frequency distribution
b) To visualize the probability density function
c) To measure the skewness of data
d) To calculate the variance of a dataset
8. Which of the following is NOT a measure of central tendency?
a) Mean
b) Median

- c) Mode
- d) Interquartile range
- 9. In a box plot, what does an outlier symbol (e.g., a dot) outside the whiskers represent?
 - a) An error in data entry
 - b) A significant change in data distribution
 - c) A mistake in data labeling
 - d) An unusual data point
- 10. What is the primary goal of hypothesis testing in data analysis?
 - a) To prove a hypothesis true
 - b) To identify the most common outcome
 - c) To determine if observed differences are statistically significant
 - d) To calculate the effect size of an intervention

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