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(FOR THE CANDIDATES ADMITTED
DURING THE ACADEMIC YEAR 2021 ONLY)

SUBJECT CODE 21UEO5E1

REG.NO. :

**N.G.M.COLLEGE (AUTONOMOUS) : POLLACHI
END-OF-SEMESTER EXAMINATIONS : NOVEMBER-2023**

B.A.ECONOMICS

MAXIMUM MARKS: 70

SEMESTER: V

TIME : 3 HOURS

**PART - III
STATISTICAL METHODS-I
SECTION - A**

(10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS.

MULTIPLE CHOICE QUESTIONS.

(K1)

1. ----- is the primary goal of data collection in research.
a) To draw conclusions b) To conduct experiments
c) To identify outliers d) To create data visualizations
2. ----- is often used to represent the composition of a whole data, showing parts as percentages of the whole.
a) Bar chart b) Line chart c) Pie chart d) Scatterplot
3. If a dataset has two modes, it is referred to as -----
a) Bimodal b) Multimodal c) Unimodal d) Median
4. ----- is the symbol used to represent the standard deviation in statistics.
a) θ (theta) b) μ (mu) c) Δ (delta) d) σ (sigma)
5. In multiple linear regression, how many independent variables are used to predict the dependent variable?
a) One b) Two c) Three or more d) Four

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES

(K2)

6. What do you mean by Secondary Data?
7. What does Frequency Polygon represents?
8. Where do the Geometric Mean applied?
9. Give the formula to calculate the range of a data.
10. What is the goal of regression analysis?

SECTION – B

(5 X 4 = 20 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS. (K3)

11. a) Give short notes on areas where statistics plays a crucial role.

(OR)

- b) Dramatize four key importance of data processing

(COND..2)

12.a) Examine how you calculate and interpret cumulative frequency.

(OR)

b) Sketch any four general rules for constructing diagrams.

13.a) Describe the kinds of Arithmetic mean.

(OR)

b) Assess the Quartiles which are commonly used in statistics?

14.a) Show how the key properties of dispersion support for statistical calculations.

(OR)

b) Examine the three main types of skewness.

15.a) Interpret about the key points of rank correlation in statistical application.

(OR)

b) Compare on applications and limitations of Correlation analysis.

SECTION - C

(4 X 10 = 40 MARKS)

ANSWER ANY FOUR OUT OF SIX QUESTIONS

(16th QUESTION IS COMPULSORY AND ANSWER ANY THREE QUESTIONS (K4/K5))

16. Elucidate on common forms of Graphic Representation with applications.
17. Analyse on various methods of data Collection with their importance.
18. Examine how different types frequency distribution helps to analyse the data for better understanding as per their characteristics.
19. Outline the merits and demerits of using arithmetic mean.
20. Summarize on criticisms and considerations related to methods of measuring dispersion for data variability.
21. Differentiate between Correlation and Regression

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