Previous years
Question's Summery 2024
(MAT 211)

CONTENTS

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Collaboration with,
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This is not any sorts of analysis, or anything special, just sets of all questions altogether :)
By Rising Flare community

Belal Sir

Definition

1. Statistics
2. Moments
3. Skewness **
4. Kurtosis **
5. census *
6. sample survey
7. pilot survey **
8. Frequency distribution *
9. Event
10. Sample
11. ogive
12. histogram
13. variance
14. probability
15. central tendancy
16. primary data
17. secondary data
18. rank correlation

Description

1. Variable vs attribute
2. Statistics, it's functions and limitations *
3. Statistics, characteristics, example, importance *
4. Name of graphs used in frequency distribution *
5. Standard deviation property and advantage
6. Uses of Coefficient of variation
7. properties of correlation coefficient

8. Regression vs correlation *

9. Importance of measuring dispersion

10. different method of data collection

11. different technique of sampling

12. "test of significance"? And different uses of "t" test

13. usual measures of central tendency *

14. various methods of dispersion

15. various methods of absolute measure of dispersion *

16. population vs sample

Proof

1. Relation between different types of mean *

2. correlation coefficient is the geometric mean of 2 regression coefficients *

3. Find the working formula for variance or prove $\sigma = \frac{1}{n}\{\sum x^2 - \frac{(\sum x)^2}{n}\}$

4. state and prove Bay's law of probability

5. mean and variance of poisson distribution

6. standard deviation is independent of change of origin but not of scale

7. prove that rank correlation coefficient r $= 1 - \frac{6\sum d^2}{n(n^2-1)}$

Pure Math

1. Quartile, decile, percentile **

2. mean, medium, mode

3. Central moment

4. coefficient of skewness *

5. kurtosis and comment on the shape and nature of the distribution *

6. least square regression **

7. estimate a value (with 5) *

8. Histogram and locating mode **

9. Frequency polygon and curve *

10. Cumulative Frequency Curve or ogive

11. standard deviation **

12. coefficient of variation *

13. Arithmetic mean (simple)

14. the mean of binomial distribution is 40 and standard deviation 6, calculate n, p and q

15. Frequency table (easy)

16. regression line draw (Y on X)

17. probability of card game

Masud Sir

Definition

1. Differential Equation
2. Ordinary differential equation **
3. Integrating factor **
4. Clairaut's Equation
5. Linear differential equation *
6. Homogeneous differential equation (with example) *
7. Partial differential equation
8. auxiliary equation of a differential equation

Description

1. Order and degree of differential equation *
2. Solution of differential equation
3. State the necessary condition for a differential equation Mdx + Ndy = 0 to be exact ****
4. Some application of differential equation
5. form of linear differential equation and Barnoulli's equation

Proof

1. Linear differential equation $\frac{dy}{dx}+Py=Q$, where P and Q are the function of x or constant. *

Real Math

Check questions from Rising Flare!