

Taibah University College of Computers science and Engineering		Date: WED 6 Sep. 2023 Time: 2:00 — 2:30
الاحتمالات والإحصاء الهندسي STAT 305 YM2 – Quiz 01		Total Marks: 15

- Which of the following is an example of **categorical data**?
 - Height of students.
 - Weight of fruits.
 - Types of fruits.**
 - Age of employees.
- A frequency table is used to:
 - Calculate the mean.
 - Display data in a graphical format.
 - Show the number of occurrences of each data point.**
 - Measure the spread of data.
- The proportion is calculated as:
 - Frequency / Total number of data points.**
 - Mean / Total number of data points.
 - Spread / Total number of data points.
 - Deviation / Total number of data points.
- The mean is:
 - The most occurring value.
 - The middle value.
 - The sum of all values divided by the number of values.**
 - The difference between the highest and lowest values.
- Spread in data refers to:
 - The average value.
 - The range of values.**
 - The most occurring value.
 - The middle value.
- Deviation is calculated as:
 - Mean - Data point.
 - Data point - Mean.**
 - Mean / Data point.
 - Data point / Mean.
- Standard deviation measures:
 - The average value.
 - The range of values.
 - The variability or dispersion of a set of values.**
 - The middle value.
- A sample is:
 - The entire group that is the subject of a study.
 - A subset of a population.**
 - Always larger than the population.
 - Always numerical.
- John conducted an experiment on 10 out of 100 plants in a garden. The 10 plants represent:
 - A population.
 - A sample.**
 - A random sample.
 - A histogram.
- In a classroom of 50 students, 10 prefer online classes. The proportion of students who prefer online classes is:
 - 0.1
 - 0.2**
 - 0.5
 - 0.05
- Which of the following is NOT a measure of central tendency?
 - Mean.
 - Median.
 - Mode.
 - Standard deviation.**
- In a pie chart displaying favourite fruits, if the segment for apples is 90° , what percentage of people chose apples as their favourite fruit?
 - 25%**
 - 50%
 - 75%
 - 90%
- Which best describes quantitative data?
 - Information grouped into distinct categories.
 - Numerical data that can be measured or counted.**
 - Data based on subjective descriptions.
 - Visual representations without numerical values.
- The average of five numbers is 20. If four of these numbers are 15, 25, 10, and 30, what is the fifth number?
 - 20**
 - 30
 - 40
 - 50
- Anna recorded the number of books she read each month for 4 months: 5, 7, 6, and 8. What is the mean number of books she read per month?
 - 5.5
 - 6.5**
 - 7
 - 7.5
- Alice is programming a function that calculates the mean of an array of numbers. She tests her function with the array [4, 8, 12, 16]. What should the function return?
 - 8
 - 10**
 - 12
 - 14

BEST WISHES

Dr. Mostafa A. Elhosseini

Professor of AI – Taibah University