**Descriptive Questions (Answer in one line):**

1. **What is a sample in statistics?**
   * A subset of a population selected for measurement or observation.
2. **Define population in the context of statistics.**
   * The entire set of individuals or items that are the subject of statistical analysis.
3. **What is a continuous variable?**
   * A variable that can take any value within a given range.
4. **What is a discrete variable?**
   * A variable that can take only specific, separate values.
5. **Give an example of a nominal variable.**
   * Gender (male, female).
6. **Give an example of an ordinal variable.**
   * Customer satisfaction rating (poor, fair, good, excellent).
7. **Define an interval scale.**
   * A scale where the difference between values is meaningful but there is no true zero point, e.g., temperature in Celsius.
8. **Define a ratio scale.**
   * A scale with a true zero point, allowing for comparison of absolute magnitudes, e.g., weight.
9. **What is the mean in measures of central tendency?**
   * The average of a set of values.
10. **Define median in measures of central tendency.**
    * The middle value in a sorted list of numbers.
11. **What is the mode in measures of central tendency?**
    * The most frequently occurring value in a dataset.
12. **What does range measure in dispersion?**
    * The difference between the highest and lowest values in a dataset.
13. **Define variance in the context of dispersion.**
    * The average of the squared differences from the mean.
14. **What is standard deviation?**
    * The square root of the variance, measuring the dispersion of a dataset.
15. **What is the purpose of using a sample?**
    * To make inferences about the population from which the sample is drawn.

**Multiple Choice Questions:**

1. **Which of the following best describes a continuous variable?**
   * A) Age in years
   * B) Number of children
   * C) Color of a car
   * D) Type of cuisine
   * **Answer: A) Age in years**
2. **Which measure of central tendency is most affected by extreme values?**
   * A) Mean
   * B) Median
   * C) Mode
   * D) Range
   * **Answer: A) Mean**
3. **Which scale of measurement has a true zero point?**
   * A) Nominal
   * B) Ordinal
   * C) Interval
   * D) Ratio
   * **Answer: D) Ratio**
4. **What type of variable is 'customer satisfaction' measured as 'satisfied' and 'dissatisfied'?**
   * A) Nominal
   * B) Ordinal
   * C) Interval
   * D) Ratio
   * **Answer: B) Ordinal**
5. **Which of the following is a measure of dispersion?**
   * A) Mean
   * B) Median
   * C) Standard Deviation
   * D) Mode
   * **Answer: C) Standard Deviation**
6. **What is the median of the dataset: 2, 4, 6, 8, 10?**
   * A) 4
   * B) 5
   * C) 6
   * D) 7
   * **Answer: C) 6**
7. **In a sample of 10 people, their ages are listed as follows: 22, 24, 26, 28, 30, 32, 34, 36, 38, 40. What is the range?**
   * A) 18
   * B) 20
   * C) 22
   * D) 24
   * **Answer: B) 20**
8. **If a dataset has a mean of 50 and a standard deviation of 5, what is the variance?**
   * A) 5
   * B) 10
   * C) 25
   * D) 50
   * **Answer: C) 25**
9. **Which of the following is an example of an ordinal scale?**
   * A) Temperature in Fahrenheit
   * B) Marital status
   * C) Rankings in a competition
   * D) Weight of an object
   * **Answer: C) Rankings in a competition**
10. **What type of data is 'temperature in Celsius'?**
    * A) Nominal
    * B) Ordinal
    * C) Interval
    * D) Ratio
    * **Answer: C) Interval**