

Plot No. 2, Knowledge Park-III, Greater Noida (U.P.) –201306

**POST GRADUATE DIPLOMA IN MANAGEMENT (2024-25)**  
**MID TERM EXAMINATION (TERM -I)**

Subject Name: **Statistics for Decision Making**

Time: **01.00 hrs**

Sub. Code: **PG14**

Max Marks: **20**

**Note: All questions are compulsory.**

**Part A carries 10 marks: all questions of 0.5 mark each)**

**1. Why is it important to learn statistics?**

- a) To make more accurate predictions      b) To interpret data and make informed decisions  
c) To manage data more effectively      d) **All of the above**

**2. Which of the following is a continuous variable?**

- a) Number of students in a class      b) **Temperature in degrees Celsius**  
c) Gender      d) Type of car

**3. Which term refers to a summary measure that describes a particular characteristic of a sample?**

- a) Parameter      b) **Statistic**      c) Population      d) Variable

**4. What is the median of the following data set: 8, 12, 14, 18, 22?**

- a) 12      b) **14**      c) 18      d) 15

**5. The mean is often referred to as the:**

- a) **Average**      b) Middle value      c) Most frequent value      d) None of the above

**6. If a data set has more than one mode, it is referred to as:**

- a) Unimodal      b) Bimodal      c) **Multimodal**      d) Non-modal

**7. Which measure of central tendency is most affected by extreme observation?**

- a) **Mean**      b) Median      c) Mode      d) Geometric mean

**8. In a negatively skewed distribution, which of the following is true?**

- a) Mean > Median > Mode      b) **Mode > Median > Mean**  
c) Median > Mean > Mode      d) Mean = Median = Mode

**9. The geometric mean is most appropriate for which type of data?**

- a) Data measured on a nominal scale      b) **Data measured on a ratio scale**  
c) Data with negative values      d) Data with outliers

**10. The range of a data set is defined as:**

- a) **The difference between the maximum and minimum values**  
b) The average of the data set      c) The square root of the variance  
d) The sum of all the values in the data set

**11. If the sum of all values in a data set is 72 and there are 9 values, what is the mean?**

- a) 6      b) **8**      c) 9      d) 10



22. Calculate the median of the students' marks.

- a) 59.25                      b) **56.5**                      c) 57.00                      d) 52.75

23. Assess the variability of the students' marks.

- a) 28.94                      b) 30.55                      c) **26.28**                      d) 22.44

24. Evaluate the consistency of the students' marks.

- a) **45.91%**                      b) 30.55%                      c) 40.28%                      d) 48.19%

25. Identify the first quartile ( $Q_1$ ) value of the students' marks.

- a) 40.25                      b) 36.59                      c) 40.75                      d) **38.33**