**1. Which of the following is NOT a type of window function in SQL Server?**

a) Aggregate Functions  
b) Ranking Functions  
c) Logical Functions  
d) Offset Functions

**Answer:** c) Logical Functions

**2. What does the ROW\_NUMBER() function do in SQL Server?**

a) Assigns a unique sequential number to rows within a partition  
b) Assigns a rank to rows, allowing duplicate ranks  
c) Returns the difference between the current and previous row  
d) Returns the cumulative sum of a column

**Answer:** a) Assigns a unique sequential number to rows within a partition

**3. What is the difference between RANK() and DENSE\_RANK()?**

a) RANK() skips numbers for duplicate values, while DENSE\_RANK() does not  
b) RANK() does not skip numbers for duplicate values, while DENSE\_RANK() does  
c) There is no difference between the two  
d) DENSE\_RANK() assigns random values instead of sequential numbers

**Answer:** a) RANK() skips numbers for duplicate values, while DENSE\_RANK() does not

**4. Which window function retrieves the value from a previous row in the partition?**

a) LEAD()  
b) LAG()  
c) FIRST\_VALUE()  
d) LAST\_VALUE()

**Answer:** b) LAG()

**5. Which function is used to compute a running total within a partition in SQL Server?**

a) SUM() OVER()  
b) COUNT() OVER()  
c) AVG() OVER()  
d) MAX() OVER()

**Answer:** a) SUM() OVER()

**6. Which of the following statements about NTILE() is correct?**

a) It assigns a rank based on order  
b) It distributes rows into a specified number of roughly equal groups  
c) It returns the first value in a partition  
d) It is used to get the previous row value

**Answer:** b) It distributes rows into a specified number of roughly equal groups

**7. What does the FIRST\_VALUE() function return?**

a) The first row's value in an entire table  
b) The first row's value within the specified partition  
c) The last row's value in an entire table  
d) The middle row's value in a partition

**Answer:** b) The first row's value within the specified partition

**8. Which function would you use to access a value from a subsequent row in the same result set?**

a) LAG()  
b) LEAD()  
c) FIRST\_VALUE()  
d) ROW\_NUMBER()

**Answer:** b) LEAD()

**9. What will happen if you use ROW\_NUMBER() without an ORDER BY clause in the OVER() function?**

a) The function will generate a sequential number, but the order will be unpredictable  
b) The function will return an error  
c) The function will assign all rows the same number  
d) The function will behave like RANK()

**Answer:** a) The function will generate a sequential number, but the order will be unpredictable

**10. Which SQL window function is best suited for calculating a moving average?**

a) COUNT() OVER()  
b) SUM() OVER()  
c) AVG() OVER()  
d) DENSE\_RANK()

**Answer:** c) AVG() OVER()