

Chapter- 1 NUMBER SYSTEMS

Main Concepts and Results

Comparing numbers

Rules of comparison:

- If two numbers have unequal number of digits, then the number with the greater number of digits is greater.
- If two numbers have equal number of digits then, the number with greater valued digit on the extreme left is greater.
- If the digits on extreme left of the numbers are equal then the digits to the right of the extreme left digits are compared and so on.

Some important terms

- The arrangements of numbers from the smallest to the greatest is called ascending order.
- The arrangement of numbers from the greatest to the smallest is called descending order.
- We arrange the given digits in descending order to form the greatest number. Hence, the greatest number using all digits 0 to 9 is 9,86,54,210.
- We arrange the given digits in ascending order to form the smallest number. Hence, the smallest number using all digits 0 to 9 is 1,02,45,689.

To get the smallest number, using the given digits:

- The smallest digit is written at the leftmost and then the remaining digits in ascending order of their values to the right.

To get the largest number, using the given digits:

- The largest digit is written at the leftmost and then the remaining digits in descending order of their values to the to the right
- A Number can not begin with zero.

