



Assignment No. 3: Counting

Answer the following questions

Que 1: State and explain the rule of sum and product of counting with suitable example

Que 2: How many 4-digit numbers can be formed using the digits 1 to 9, if the repetition of digits is not allowed?

Que 3: How many 3-digit numbers can be formed using the digits 2,3,4,5,7 and 9, if the repetition of digits is not allowed.

- i. How many of these numbers is less than 400?
- ii. How many are even?
- iii. How many are multiple of 5?
- iv. How many are odd?
- v. How many are multiple of 10?

Que 4:

- i. How many vehicle number plates can be made if each plate contains two different letters followed by three digits.
- ii. Find if first digit cannot be zero

Que 5: Find the number of arrangements that can be made out of the letters.

- i. ASSASSINATION
- ii. GANESHPURI

Que 6: State and explain algorithm for generation of permutation and combination with suitable example.

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