

First Trial
2019 – 2020

Q1. How many words, with or without meaning can be made from the letters of the word "**Function**", assuming that no letter is repeated, **if :**

- a) **Four** letters are used at a time?
- b) **Five** letters are used but **first** letter is a **vowel**?
- c) **Five** letters are used **begin** with **F** and **end** in a **consonant**?
- d) **Five** letters are used **contain** the letter **T** ?

Q2. How many **4 digit** numbers **greater than 5000** can be formed using numbers **2,3,4,5,6,7,8** with the following conditions:

- (i) Without repetition of digits. (ii) **Odd numbers** without repetition.

Q3. **Five** cards are drawn from a pack of playing cards. Find the probability of :

- (i) **Three aces** and **two king**? (ii) **At least one queen** of the **red** is drawn?
- (iii) **Two** pictures of **red card** and **others** are **black** cards?

Q4. Three unbiased dice are thrown Find the probability of getting:

- a) Sum less than 8?
- b) Sum odd numbers?