SUBJECT – MATHEMATICS, CLASS-XI
CHAPTER-COMBINATION

1- In how many ways can a committee be selected from 15 persons if a the committee is to have

    (i) 3 members   (ii) 13 members

2- There are 10 points in a plane. Of these 10 points 4 points are in a straight line with the exception of these 4 points, no 3 points are in the same straight line. Find the number of straight line formed.

3- A persons has 12 friends of them 8 are relatives. In how many ways can be invite 7 friends such that at least 5 of them may be relatives.

4- A bag contains 5 black and 6 red balls. Determine the number of ways in which 2 black and 3 red balls can be selected from lots.

5- How many four letters word can be formed from the letter of the word "MISSISSIPPI"

6- How many ways can we select 6 members committee from 6men and 5 women such that each committee has at least 3 women.

7- A committee of 7 has to be formed from 9 boys and 4 girls. In how many ways can this be done when the committee consists of (i) exactly 3 girls? (ii) at least 3 girls?

8- A student is allowed to select at most n books out of (2n+1) books . if the total no of case in which he can select at least one book is 63. Find n.

9- Let T_n is the number of all possible triangles formed by joining the vertices of a polygon of n side. If $T_{n+1} - T_n = 10$ then find n.

10- Given that 5 different green ball,4different blue balls and 3 different red balls how many combination of balls can be chosen taking at least one green and one blue ball