SUBJECT – MATHEMATICS, CLASS-XI
CHAPTER-COMBINATION

1- If $C(n,12)= C(n,8)$ then find n.

2- How many chords can be drawn through 15 points on a circle

3- How many diagonals are there in a polygon of n sides?

4- Find r if $C(8,r)- C(7,3)= C(7,2)$

5- A man has 7 friends how many ways he invite 1 or more to his dinner party

6- How many ways two books of different language can be selected from 10 Hindi, 5 English and & 7 Sanskrit books?

7- How many ways can we select a playing 11 out of 8 bats man and 7 bowlers if each paying 11 contain 5 bowlers

8- How many ways we can select 11 cards out of 52 cards

9- How many ways we can select 12 black cards out of 52 cards

10- How ways we can select 10 cards from 52 card such that each collection contain exactly black king

11- The number of ways to painting the faces of a cube with six different colour is

a. 1   b. 6   c. 15   d. 30

12- For $2 \leq r \leq n$, $C(n, r)+2x\, C(n,r-1)+ C(n,r-2)$ is

a. $C(n+1,r-1)$ b. $2x\, C(n+1,r+1)$ c. $2x\, C(n+2,r)$
d. $C(n+2,r)$

13- The number of positive integer satisfying the inequality $C(n+1,n-2)- C(n+1,n-1) \leq 100$

a. 10   b. 9   c. 11   d. 12

14- A polygon has 27 diagonals number of its side is

a. 10   b. 6   c. 9   d. 11

15- The exponent of 2 in $x=20x19x18x…….11$ is

a. 8   b. 10   c. 12   d. 14