SOLUTIONS OF
Worksheet-20

SUBJECT – MATHEMATICS

2nd-term

Chapter: Algebra	**Class: XI**
Topic: Permutations	**Date: 07.11.2020**

Choose the correct option   **(1 X 15= 15)**

1. How many different permutations can be made by taking all the letters of the word BENGALI ?

   a) 6!
   b) **7!**
   c) 8!
   d) 9!

2. How many different permutations can be made by taking all the letters of the word DRAUGHT so that the vowels are always together ?

   a) 1450
   b) 1340
   c) **1440**
   d) 1404

3. How many different permutations can be made by taking all the letters of the word ACCOUNTANT ?

   a) 262800
   b) **226800**
   c) 216800
   d) 228600

4. How many different permutations can be made by taking all the letters of the word STATISTICS ?

   a) **50400**
   b) 40500
   c) 54004
   d) None of these

5. **How many different permutations can be made by taking all the letters of the word SUCCESS ?**

    a) 240
    b) 450
    c) 400
    d) **None of these.**

6. **An unbiased coin is tossed 5 times in succession. How many different outcomes are possible ?**

    a) 30
    b) **32**
    c) 25
    d) None of these.

7. **A six faced unbiased dice is rolled 4 times. How many different outcomes are possible?**

    a) 1396
    b) 1169
    c) **1296**
    d) 1369

8. **How many different arrangements can be made by taking all the letters of the word ORION so that the consonants are never together ?**

    a) 35
    b) **36**
    c) 37
    d) 38

9. **How many different arrangements can be made by taking all the letters of the word STRANGE so that the vowels may appear in the odd places ?**

    a) 1444
    b) 1044
    c) 1404
    d) **1440**

10. **In how many ways can 4 boys and 3 girls be arranged in a row so that no two girls come together ?**

    a) 1040
    b) **1440**
    c) 1443
    d) 1445

11. In how many ways can 3 boys and 5 girls be arranged in a row so that all the 3 boys are together ?

   a) 4230
   b) 4210
   c) 4230
   d) **4320**

12. How many different arrangements can be made by taking all the letters of the word LOGARITHM ?

   a) 362800
   b) 356880
   c) 347880
   d) **None of these**

13. How many different arrangements can be made by taking all the letters of the word LOGARITHM which begin with L ?

   a) **40320**
   b) 43210
   c) 40330
   d) 40310

14. How many different arrangements can be made by taking all the letters of the word LOGARITHM which begin with L and do not end with M ?

   a) 35288
   b) 35289
   c) **35280**
   d) 35270

15. If none of the digits 3, 5, 7, 8, 9 be repeated, how many different numbers greater than 7000 can be formed with them ?

   a) 190
   b) 191
   c) **192**
   d) 196