| | BCM SCHOOL BASNNT AVENUE DUGRI LUDHIANA<br>ASSIGNMENT XI SC |
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| 1 | The total number of words formed by 2 vowels and 3 consonants taken from 4 vowels and 5 consonants is<br>(a) 60 (b) 120 (c) 7200 (d) 720 |
| 2 | Everybody in a room shakes hands with everybody else. If the total number of handshakes is 66, then the total number of persons in the room is<br>(a) 11 (b) 12 (c) 13 (d) 14 |
| 3 | The number of triangles that are formed by choosing the vertices from a set of 12 points, seven of which lie on the same line is<br>(a) 105 (b) 15 (c) 175 (d) 185 |
| 4 | The number of parallelograms that can be formed form a set of four parallel lines intersecting another set of three parallel lines is<br>(a) 6 (b) 18 (c) 12 (d) 9 |
| 5 | The number of words which can be formed out of the letters of the word ARTICLE, so that vowels occupy the even place is<br>(a) 1440 (b) 144 (c) 7! (d) ${}^4C_4 \times {}^3C_3$ |
| 6 | Eight chairs are numbered 1 to 8. Two women and 3 men wish to occupy one chair each. First the women choose the chairs from amongst the chairs 1 to 4 and then men select from the remaining chairs. Find the total number of possible arrangements. |
| 7 | If the letters of the word RACHIT are arranged in all possible ways as listed in dictionary, then what is the rank of the word RACHIT? |
| 8 | Out of 18 points in a plane, no three are in the same line except five points which are collinear. Find the number of lines that can be formed joining the point. |
| 9 | We wish to select 6 persons from 8 but, if the person A is chosen, then B must be chosen. In how many ways can selections be made? |
| 10 | How many automobile license plates can be made, if each plate contains two different letters followed by three different digits? |
| 11 | Find the number of different words that can be formed from the letters of the word TRIANGLE, so that no vowels are together. |
| 12 | If ${}^nC_{r-1} = 36$, ${}^nC_r = 84$ and ${}^nC_{r+1} = 126$, then find the value of ${}^rC_2$. |
| 13 | Find the number of permutations of n distinct things taken r together, in which 3 particular things must occur together. |
| 14 | Find the number of different words that can be formed from the letters of the word TRIANGLE, so that no vowels are together. |
| 15 | There are 10 lamps in a hall each one of them can be switched on independently. Find the number of ways in which the hall can be illuminated. |