Aarambh Classes

Class XI

PERMUTATION WORKSHEET

1. In how many ways can 10 books be arranged on ashelf so that a particular pair of books shall be (I)always together (ii)never together .
2. In how many ways can 9 examination papers be arranged so that the best and the worst papers are never together .
3. In how many ways can 6 balls of different colours ,namely ,white,black blue,red green and yellow ,be rranged in arow in such away that the white and black balls are never together .
4. Find the number of ways in which 5 boys and 3 girls can be seated in arow so that no two girls are together .
5. How many words beginning and ending with a consonant can be formed by using the letters of the word ‘EQUATION ‘?
6. The principal wants to arrange 5 students on the platform such that the boy salim occupies the second position and such that the girl sita is always adjacent to girl RIta .How many such arrangements are possible /
7. How many words can be formed out of the letters of the word ‘ORIENTAL ‘so that the vowels always occupy the odd places ?
8. In how many arrangemnts of the word ‘GOLDEN’ will the vowels never occur together ?
9. How many numbers divisible by 5 and lying between 3000 and 4000 can be formed by using the digits 3,4,5,6,7,8 when no digit is repeated in any such number ?
10. In an examination 10 candidates have to appear ,4 candidates are to appear in mathematics and the rest in different subjects .In how many ways can they be seated in a row ,if candidates appearing in mathematics are not to sit together ?