

Infosys P&C Questions with Solutions

- 1. How many 4 digit numbers contain number
- 2.
- a. 3170
- b. 3172
- c. 3174
- d. 3168
- Ans: D

Sol: Total number of 4 digit numbers are 9000 (between 1000 and 9999).

We find the numbers without any two in them. So total numbers are $8 \times 9 \times 9 \times 9 = 5832$ So numbers with number two in them = 9000 - 5832 = 3168

- 2. How many three digit numbers ABC are formed where at least two of the three digits are same.
- a. 252
- b. 260
- c. 213
- d. 226
- Ans: a

Sol: Total 3 digit numbers = $9 \times 10 \times 10 = 900$

Total number of 3 digit numbers without

repetition = $9 \times 9 \times 8 = 648$

So a number of three digit numbers with at least one digit repeats = 900 - 648 = 252

3. In a cycle race, there are 5 persons named as J,K,L,M,N participated for 5 positions so that in how many number of ways can M finishes always before N?

a. 70

b. 60

c. 80

d. 22

Ans: b

Sol: Total number of ways in which 5 persons can finish is 5! = 120 (there are no ties) Now in half of these ways M can finish before N.

4. There are 16 people, they divide into four groups, now from those four groups select a team of three members, such that no two members of the team should belong to the same group.

a.112

b.234

c.256

d.214

Ans: c

Sol: We can select any three of the 4 groups in 4 $\,$

C3

5. 7 people have to be selected from 12 men and 3 women, Such that no two women can come together. In how many ways we can select them?

a. 2772

b. 2773

c. 2775

d. 2134

Ans: 2772

Sol: We can select only one woman, and remaining 6 from men. So $12 \text{ C } 6 \times 3 \text{ C } 1 = 2772$

6. Tennis players take part in a tournament. Every player plays twice with each of his opponents. How many games are to be played?

a. 210

b. 123

c. 250

d. 215

Ans: a

Sol: We can select two teams out of 15 in 15 C 2 ways. So each team plays with other teams once. Now to play two games, we have to conduct $15 C 2 \times 2 = 210$ games.

7. Find the no of ways in which 6 toffees can be distributed over 5 different people namely A,B,C,D,E.

a. 3

b. 4

c. 6

d. 5

Ans:d

Sol: We assume that all the toffees are similar.

Then Number of ways are (n + r - 1) C r - 1

HereA+B+C+D+E=6

Here r = 5, n = 6

Number of ways = 6+5-1 C 5-1=10 C 4=210. If all the toffees are different, then each toffee can be distributed to any of the five. So total ways are 5

8. A shop has 4 shelves, 3 wardrobes, 2 chairs and 7 tables for sale. You have to buy a. 1 shelf

- b. 1 wardrobe
- c. either 1 chair or 1 table

How many selections can be made?

- a. 110
- b. 109
- c. 108
- d. 107

Ans:c

Sol:

The way to answer this question

4C1×3C1×2C1+4C1×3C1×7C1=

108

9. How many ways can one arrange the word EDUCATION such that relative positions of vowels and consonants remain same?

- a. 2880
- b. 2180
- c. 2670
- d. 2560

Ans: a

Sol: The word EDUCATION is a 9 letter word with none of the letters repeating
The vowels occupy 3,5,7th & 8th position in the word & remaining five positions are occupied by consonants

As the relative position of the vowels & consonants in any arrangement should remain the same as in the word EDUCATION. The four vowels can be arranged in 3rd,5th,7th & 8th position in 4! ways.

similarly, the five consonants can be arranged in 1st, 2nd, 4th, 6th & 9th position in 5! ways Hence the total number of ways = 5!

×4!=120×24=2880

10. There are 8 digits and 5 alphabets. In how many ways can you form an alphanumeric word

using 3 digits and 2 alphabets?

- a. 33190
- b. 33210
- c. 41200
- d. 43200

Ans: d

Sol:

Select 3 digits from 8 digits i. e. 8 C 3 ways

And also select 2 alphabets from 5 alphabets

i.e., 5 C 2 ways

Now to form an alphanumeric word of 5

characters we have to arrange the 5 selected

digits. So the answer is . 8 C 3

 \times 5 C 2 \times 5! = 43200

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