## **PYQs of Various MNCs**

- 1. A completes a work in 2 days, B in 4 days, C in 9 and D in 18 days. They form group of two such that difference is maximum between them to complete the work. What is difference in the number of days they complete that work?
- 2. How many 4 digit numbers contain number 2.
- 3. How many three digit numbers abc are formed where at least two of the three digits are same.
- 4. How many numbers are divisible by 4 between 1 to 100
- 5. There are 1000 junior and 800 senior students in a class. And there are 60 sibling pairs where each pair has 1 junior and 1 senior. One student is chosen from senior and 1 from junior randomly. What is the probability that the two selected students are from a sibling pair?
- 6. 161 ?85 ? 65 ? 89 = 100, then use + or in place of ? and take + as m,- as n then find value of m-n.
- 7. 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?
- 8. Rahul took a part in cycling game where 1/5 ahead of him and 5/6 behind him excluding him. Then total number of participants are
- 9. If a refrigerator contains 12 cans such that 7 blue cans and 5 red cans. In how many ways can we remove 8 cans so that atleast 1 blue can and 1 red can remains in the refrigerator.
- 10. 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 in the team should belong to same group.

## Aplitude Bartin

Let total wow = 2, 4, 9, 18 => LCM = 36

A= 36- Q = 18 with Idag

36 = 4 = 9 with Iday 0:

c: 36= 9 = 4 with Iday

0: 36 = 18 = 2 units (day

A(18)+0(2) = 20 wit (04)

(a) + c(h) = 13 une lan

36 - 20 = 1.8 days 36 - 13 = 2.77 days

9.77-1.8 = 0.97 days

2. Total u-digit number

1000 to aga a

agaq - 1000 +1: 9000

Total 4-dip ( 10 = 9000

no wer 2: 5832 => 8 xaxax a = 5832.

Wh at least one a = 9000 - 5839 = 3168

3. 100 to 999

h

999-100+1 =900

9 x 9 x 8 = 648

900-648 = 252

n = (1-a) +1

=  $\frac{(100-4)}{4}$  +1 =  $\frac{24}{4}$  +1 = 24+1 = 25

Favorase outum : 60

161-85-65+89

161-85= 76

76-65=11

11+89 = 100

+ appear 1 time -> cm = 1

= 5! = 120

7 blue, Tred.

. Nemas 8 Cans

. U Can remain

10

(3)=4 uxuxu= u3=64 (3)xu3= ux64=256

10.