In a non-leap year, the probability of having 53 Tuesdays or 53 Wednesdays is A. 1/7 B. 2/7 C. 3/7 D. none of these

## Solution:

B. 2/7

## **Explanation:**

We know that in a non-leap year, there are 365 days and we know that there are 7 days in a week

 $\therefore 365 \div 7 = 52 \text{ weeks} + 1 \text{ day}$ 

This 1 day can be Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday

 $\therefore$  Total Outcomes = 7

If this day is a Tuesday or Wednesday, then the year will have 53 Tuesday or 53 Wednesday.

: P (non-leap year has 53 Tuesdays or 53 Wednesdays) = 1/7 + 1/7 = 2/7

Hence, the correct option is (B).