

Mathematics

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(Chapter – 13) (Statistics & Probability)(Exemplar Problems)
(Class – X)

Exercise 13.1

Choose the correct answer from the given four options:

Question 19:

The probability that a non – leap year your selected at random will contains 53 Sunday is

(A) $\frac{1}{7}$

(B) $\frac{2}{7}$

(C) $\frac{3}{7}$

(D) $\frac{5}{7}$

Answer 19:

(A) $\frac{1}{7}$

Solution:

A non – leap year has 365 days and therefore 52 weeks and 1 day.

This 1 day may be:

Sunday or Monday or Tuesday or Wednesday or Thursday or Friday or Saturday.

Thus, out of 7 possibilities, 1 favourable event is the event that the one day is Sunday.

$$\therefore \text{Required probability} = \frac{1}{7}.$$

Hence, the option (A) is correct.

