

Total number of 6-digit numbers in which only and all the five digits 1, 3, 5, 7 and 9 appear, is:

(1) $5(6!)/2$

(2) 5^6

(3) $(6!)/2$

(4) $6!$

Ans: (1)

Sol: Total number of 6-digit numbers in which only and all the five digits 1, 3, 5, 7 and 9 appear can be determined as:

$6!/2!(6 \text{ places to fill out of which one number will repeat}) \times {}^5C_1$ (to choose the number which is repeated)