A seven digit number is formed using digits 3, 3, 4, 4, 4, 5, 5. The probability, that number so formed is divisible by 2, is:

- (1) 6/7
- (2) 1/7
- (3) 3/7
- (4) 4/7

Total 7 digit numbers =
$$\frac{7!}{2!2!3!}$$

Number of 7 digit number divisible by 2

$$\Rightarrow$$
 last digit = 4



Now 7 digit numbers which are divisible by 2

$$=\frac{6!}{2!2!2!}$$

Required probability =
$$\frac{\frac{6!}{2!2!2!}}{\frac{7!}{3!2!2!}} = \frac{3}{7}$$