

## ECAT Mathematics Chapter 9 Permutation, Combination and Probability Online Test

Sr	Questions	Answers Choice
1	Two balanced dice are tossed once, the sample space when the integers on the faces of two dice are the same is	A. $\{(1, 1), (2, 2), (3, 3)\}$ B. $\{(4, 4), (5, 5), (6, 6)\}$ C. $\{(1, 1), (2, 2), (3, 3), (4, 4), (5, 5), (6, 6)\}$ D. None of these
2	Question Image	
3	Question Image	
4	Question Image	A. 5 B. 10 C. 20 D. 30
5	Question Image	
6	Question Image	
7	The probability to get an odd number in a dice thrown once is	A. $1/2$ B. $1/6$ C. $1/3$ D. 2
8	How many arrangements of the letters of the word ADDING can be made	
9	How many arrangements of the letter of the word PAKPATTAN can be made	
10	How many arrangements of the letters of the word PAKISTAN cab be made	
11	How many arrangements of the letters of the word MATHEMATICS can be made	
12	The number of words that can be formed out of the letters of the word ASSASSINATION is	
13	Question Image	A. 36 B. 360 C. 24 D. 6
14	$20 \cdot 19 \cdot 18 \cdot 17 =$ _____	
15	Question Image	
16	$n(n - 1) (n - 2) \dots (n - r + 1) =$ _____	
17	Question Image	
18	Question Image	
19	$(n + 2) (n + 1) n =$ _____	
20	$9 \cdot 8 \cdot 7 \cdot 6 =$ _____	
21	If n is a negative integer $n!$ is	A. 1 B. 0 C. Unique D. Not defined
22	Question Image	A. 0 B. -1 C. 1 D. 2
23	The probability that a person A will be alive 15 years hence is $5/7$ and the probability that another person B will be alive 15 years hence is $7/9$ . Find the probability that both will be alive 15 years hence	A. $4/63$ B. $5/9$ C. $45/49$ D. None of these
24	The sample space for tossing a coin twice is	A. {H, T} B. {HH, HT, TH, TT} C. {H, T, HH} D. {HH, HT, TT}

25	Question Image	A. $P(A) + P(B)$ B. $P(A) - P(B)$ C. $P(A) \cdot P(B)$ D. $P(A) / P(B)$
26	The probability that a slip of number divisible by 4 is picked from the slips bearing numbers 1, 2, 3, ...10 is	A. $1/5$ B. $1/4$ C. $1/3$ D. $1/2$
27	A dice is rolled. The probability that the dots on the top are greater than 4 is	A. $1/6$ B. $1/3$ C. $1/2$ D. 1
28	The probability to get an odd number in a dice thrown once is	A. 6 B. 1 C. $1/6$ D. $1/2$
29	The sample space for tossing a coin once is	A. {T, T} B. {H, H} C. {H, T} D. None of these
30	Question Image	A. 5 B. 20 C. 9 D. 4