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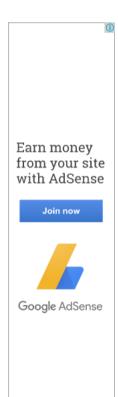
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Permutations And Combinations 01

- 01. Five-digit numbers are formed using only 0, 1, 2, 3, 4 exactly once. What is the difference between the greatest and smallest numbers that can be formed?
 - (a) 19800
- (b) 41976
- (c) 32976
- (d) None of these
- 02. In how many ways can Eight Directors, Vice-Chairman and Chairman of a firm be seated at a round table, if the Chairman has to sit between the Vice-Chairman and a Director?
 - (a) 9! x 2
- (b) 2 x 8!
- (c) $2 \times 7!$
- (d) None of these
- 03. A man has 9 friends: 4 boys and 5 girls. In how many ways can he invite them, if there have to be 3 exactly girls in the invitees?
 - (a) 320
- (b) 160
- (c) 80
- (d) 200
- 04. Boxes numbered 1, 2, 3, 4 and 5 are kept in a row and they which are to be filled with either a red or a blue ball, such that no two adjacent boxes can be filled with blue balls. Then, how many different arrangements are possible, given that all balls of a given colour are exactly identical in all respects?
 - (a) 8
- (b) 10
- (c) 15
- (d) 22
- 05. A, B, C, D are four towns, any three of which are non-collinear. Then, the number of ways to construct three roads each joining a pair of towns so that the roads do not form a triangle is?
 - (a) 7
- (b) 8
- (c) 9
- (d) 24
- 06. If a 4-digit number is formed with digits 1, 2, 3 and 5. What is the probability that the number is divisible by 25, if repetition of digits is not allowed?
 - (a) 1/12
- (b) 1/4
- (c) 1/6
- (d) None of these
- 07. A five digit number is formed using digits 1, 3, 5, 7 and 9 without repeating any one of them. What is the sum of all such possible numbers?
 - (a) 6666600
- (b) 6666660
- (c) 6666666
- (d) None of these
- 139 persons have signed for an elimination tournament. All players are to be paired up for the first round, but because 139 is an odd number one player gets a bye, which promotes him to the second round, without actually playing in the first round. The pairing continues on the next round, with a bye to any player left over. If the schedule is planned so that a minimum number of matches is required to determine the champion, the number of matches which must be played is
 - (a) 136
- (b) 137
- (c) 138
- (d) 139





(a) 1/18 (b) 1/3 (c) 1/6 (d) 2/3

10. A group of 630 children is arranged in rows for a group photograph session. Each row contains three fewer children than the row in front of it. What number of rows is not possible ?

(c) 5

(d) 6

A box contains 6 red balls, 7 green balls and 5 blue balls. Each ball is of different size. The probability that

Answers:

(a) 3

1.	С	2.	В	
3.	В	4.	D	
5.	D	6.	Α	
7.	Α	8.	С	
9.	С	10.	D	

Detailed Solution (http://www.elitmuszone.com/elitmus/permutation-and-combinations-solution-1/)

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