

GATE Aptitude Practice Questions Permutation & Combination

- Q.No. 1** In four-digit integer numbers from 1001 to 9999, the digit group "37" (in the same sequence) appears _____ times.
- (A) 270
(B) 279
(C) 280
(D) 299
- Q.No. 2** Five different books (P, Q, R, S, T) are to be arranged on a shelf. The books R and S are to be arranged first and second, respectively from the right side of the shelf. The number of different orders in which P, Q and T may be arranged is ____.
- (A) 2 (B) 6 (C) 12 (D) 120
- Q.No. 3** The number of 3-digit numbers such that the digit 1 is never to the immediate right of 2 is
- (A) 781 (B) 791 (C) 881 (D) 891
- Q.No. 4** P looks at Q while Q looks at R. P is married, R is not. The number of pairs of people in which a married person is looking at an unmarried person is
- (A) 0 (B) 1 (C) 2 (D) Cannot be determined
- Q.No. 5** There are 4 women P, Q, R, S, and 5 men V, W, X, Y, Z in a group. We are required to form pairs each consisting of one woman and one man. P is not to be paired with Z, and Y must necessarily be paired with someone. In how many ways can 4 such pairs be formed?
- (A) 74 (B) 76 (C) 78 (D) 80

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- Q.No. 6** There are 3 Indians and 3 Chinese in a group of 6 people. How many subgroups of this group can we choose so that every subgroup has at least one Indian?
- (A) 56 (B) 52 (C) 48 (D) 44
- Q.No. 7** A test has twenty questions worth 100 marks in total. There are two types of questions. Multiple choice questions are worth 3 marks each and essay questions are worth 11 marks each. How many multiple choice questions does the exam have?
- (A) 12 (B) 15 (C) 18 (D) 19
- Q.No. 8** Five teams have to compete in a league, with every team playing every other team exactly once, before going to the next round. How many matches will have to be held to complete the league round of matches?
- (A) 20 (B) 10 (C) 8 (D) 5
- Q.No. 9** There are eight bags of rice looking alike, seven of which have equal weight and one is slightly heavier. The weighing balance is of unlimited capacity. Using this balance, the minimum number of weighings required to identify the heavier bag is
- (A) 2 (B) 3 (C) 4 (D) 8

Answer Key

Q. No.	Ans.
1	C
2	B
3	C
4	B
5	C
6	A
7	B
8	B
9	A

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