



Permutation And Combination Questions Overview

Permutation And Combination Questions have a good weightage in the Ssc Chsl Exam and the type of question asked in Ssc Chsl exam is similar to the question mentioned below. It has been solved and explained by KD Live Experts under the guidance of Neetu Mam and they have tried to elaborate the concept used in Permutation And Combination Questions.

Question On Permutation And Combination

Six different erasers and three boxes are taken. Each eraser is to be put in one of these boxes. No box should remain empty and all the boxes should not have the same number of erasers. In how many ways can this be done?

Difficulty : Moderate

Average Time : 41 Seconds

Permutation And Combination Questions Options

1. 666
2. 555
3. 444
4. 888
5. 777

Permutation And Combination Questions Solution

The correct answer is **Option 3** i.e. **444**.

Each eraser can be put in one of three boxes.

Number of ways in which this can be done = $3 \times 3 \times 3 \times 3 \times 3 \times 3 = 729$

Out of these, there can be some cases when one or more boxes are empty, and when all boxes have the same number of erasers.

Case 1) One box is empty.

An empty box can be selected in 3C_1 ways i.e. 3 ways.

Now, each eraser can be put in one of two boxes.



Number of ways in which this can be done = $3 \times (2 \times 2 \times 2 \times 2 \times 2 \times 2) = 192$

Case 2) Two boxes are empty.

All erasers will be in one of three boxes. This can be done in only 3 ways.

Case 3) Three boxes are empty. This case is not possible.

Case 4) All boxes have the same number of erasers, i.e., 2.

We have to select two erasers for each box.

Number of ways in which this can be done = ${}^6C_2 \times {}^4C_2 \times {}^2C_2 = 15 \times 6 \times 1 = 90$

Total number of ways in which this can be done = $729 - 192 - 3 - 90 = 444$

Permutation And Combination Questions Tips and Tricks



1. Try to solve Permutation And Combination Questions without taking any help from the solutions.
2. Permutation And Combination Questions require proper usage of concept so firstly read the question thoroughly and then use the right concept.
3. In case you're not able to solve the question in less than 30 seconds in the exam then you should skip the question and move to the next question.

Daily Current Affairs



KD Live is providing Current Affairs on a daily basis for SSC and a current affairs quiz too for the practice. For the Current Affairs please [Click Here](#) and for the current affairs quiz please [Click Here](#).

KD Live Free Offerings



KD Live is Offering Every Information and Study Material required for the self study. Please click on the following links for accessing those.

- [Study Plan](#)
- [General Science](#)
- [General Awareness](#)
- [General Knowledge](#)
- [Quantitative Aptitude](#)



Logical Reasoning
English Language
Today In History
Question Paper
Syllabus
Know Your State
Know Your Country
Know Your City
Know Your Leader
Books And Authors
Daily Vocabulary
Daily Editorial
Latest Notifications
Exam Dates
Admit Card
Exam Results
Exam Cutoff
Exam Eligibility
Exam Pattern
Answer Key
Important Days
Full Form
Previous Year PDF
Quiz



Further Guidance on Permutation And Combination Questions

For Asking any query on Permutation And Combination Questions please mail [Send Email](#) or you can fill the form at [KD Live](#).

About KD Live

KD live has an expertise in providing apt explanations for the Permutation And Combination Questions since 2008. More than 10 lakh aspirants have cleared competitive exams under the guidance of Neetu Mam. [Study.kdcampus.live](#) is providing free information on various topics and for the Ssc Chsl Exam you can refer the following link [Click Here](#) however if you want to practice more questions then please refer the following link [Click Here](#).

About Neetu Mam

Neetu Mam is primarily passionate for the English language and teaching from the last 20 years however for the



STUDY CONTENTS THAT GET YOU SELECTED

**FREE
PDF**



5 LAKH+ STUDENTS
Already enrolled with our
selection focused courses.



30+ EXPERT INSTRUCTORS
Our instructors are the best
in the industry



10000+ HOURS OF VIDEOS
All videos are well-explained for you
to get every bit out of the videos

Permutation And Combination Questions. She has guided her team to provide the best explanation for the question.



Follow us on



Address : 1997, Mukherjee Nagar, 110009

Email : online@kdcampus.org

Call : +91 95551 08888

Download the App

