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Reasoning Tricks to Solve Coding -Decoding

Last Updated : 13 Jun, 2025

Coding -decoding is one of the most common sections included in all competitive exams, which are basically designed for hiring processes and higher education. Many candidates find Coding-Decoding questions challenging to solve, and as a result, they avoid attempting these scoring questions and lose some easy and quick marks.

Important Tricks to Solve Coding-Decoding

Remember the values of A-1, B-2, C-3, D-4, E-5,...............X-24, Y-25, Z-26.

So, finding the reverse value of any number simply subtract that no. from **27**

 Ex:- the reverse of A, i.e., 1 is 27-1 =26 so, our answer is Z, whose value is 26.

This concept will be very helpful in solving problems of Coding-Decoding.

Types of Coding-Decoding

There are the following types of Coding-Decoding

- **Letter-based Coding**
- **Number-based Coding**
- **Symbolic based Coding**

Letter Coding -

Letter Coding is a type in which the letters are replaced with other letters.

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Example of Letter Coding:

JUNE is coded as "HSLC", then what should be the code for JULY.

Explanation: To solve these kinds of problems, you have to remember that every alphabet has a specific number.
So, according to the question,
JUNE is coded as "HSLC"
J is coded as 10, U is coded as 21, N is coded as 14 and E is coded as 5
In the same way, "HSLC" is coded as
H is coded as 8, S is coded as 19, L is coded as 12 and C is coded as 3

If you observe both the given word, it is coded by decreasing 2 for each alphabet.
So, in the same way, to code "JULY", the same number should be decreased.
So you code "JULY" as:
J is coded as 10, U is coded as 21, L is coded as 12, Y is coded as 25
So, in the same way, it decreased each alphabet by 2
The final solution for JULY would be 8, 19, 10, 23

And you should code the word as "HSJW".

Let us Understand Number Coding with the help of an Example

If "GEEKS" is coded as 35542, and GAME is coded as 3895, then what would be the code for SKEEG?

So, here The code of every letter is already specified in the question itself, so no need to use fixed codes of the letters.

Now, specify the number of each letter to solve the problem. If you observe the two words, some of the letters are repeated, so no need to write the repeated letters.

Now, code the letters.

G is coded as 3, E is coded as 5, K is coded as 4, S is coded as 2, A is coded as 8, and M is coded as 9

Using these codes, "SKEEG" is coded as 2,4,5,5,3.

Symbol Coding -

Let us Understand Symbol Coding with the help of this Example:

If

- $\star = 5$
- $\triangle = 10$
- $\square = 15$
- $\diamond = 20$

then what is the value of $\star + \triangle + \diamond$

Solution:

Substitute the values:

$\star = 5, \ \triangle = 10, \ \diamond = 20$

So,

$\star + \triangle + \diamond$ *= 5 + 10 + 20 = 35*

Solved Questions on Coding-Decoding

Que 1. If   VGMACQ is coded as WHNCDR, then what will be the code for MOTHER ?

Explanation:

So, observing pattern we can see that , Each consonant like (V,M,C,Q) is increased by 1 i.e V to W , M to I
and each Vowel is increased by 2 i.e A to C

So, applying the same
MOTHER can be written as NQUIGS

Here consonant like(M,T,H,R) is incremented by 1 i.e M to N, T to U
and Vowels i.e O,E is incremented by 2 , i.e O to Q , etc.

Que 2. If A=1 and BAD is written as 214 , then what will be the code for ACE ?

Explanation:

Here we can see that every alphabet is written as it's value in alphabets.

i.e A is the 1st alphabet. so written as 1.
B is the 2nd, A is the 1st , D is 4th. So, written as 214.

So, ACE is written as 135. as A,C,E are the 1st , 2nd and 5th alphabet.

Que 3. If GEEKS is Written as 202222168 , then how would GOOD be written ?

Explanation:

Here, we can observe that every alphabet's reversed values is coded
.

i.e G's alphabet value is 7 and reversed value is 27-7 =20

*So, GOOD will be written as 20121223
as   G's alphabet value is 7 and reversed value is 27-7 =20.*

*O's alphabet value is 15 and reversed value is 27-15 =12.
D's alphabet value is 4 and reversed value is 27-4 =23.*

Practice Questions on Coding-Decoding

Question 1. If CAMERA is coded as DBNFSB, how is MOBILE coded?

Question 2. In a certain code, FLOWER is written as 6-12-15-23-5-18. How would GARDEN be written?

Question 3. If A=1, B=4, C=9, D=16, what does the code 49-1-25-36 represent?

Question 4. If EARTH is coded as FBSUI, how is VENUS coded?

Question 5. In a certain code, LOGIC is written as CIHOL. How would REASON be written

Answer Key:

*1. NPCJMF
2. 7-1-18-4-5-14
3. GAEF
4. WFOVT
5. NOSAER*

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