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# Reasoning Tricks to Solve Coding -Decoding

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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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Got It !

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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".***

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## 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,*

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

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## 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 N 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  $27-7=20$*

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*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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