Coding- Decoding (Notes New)

In this type of questions, an expression is given in coded form. You have to answer the given question by decoding the code of the expression.

Coding: Something written in special form in codes is called coding.

Decoding: To know, what is written and the basis of the codes if known as decoding. That is, describing what the code is all about, is called decoding.

Types of coding-decoding-

(i) Coding- decoding based on Alphabets: To solve, this type of questions we should remember the position of the alphabets, beginning from A=1 to Z=26

Remember
With the help of EJOTY, you can easily know the position of all the English alphabets. By practicing you memories the position of the English alphabets:

Note: Remembering the position of the alphabets in reverse order is very simple by the following formula:

Position of alphabets from reverse = 27- Position of alphabets.

For example, Position of alphabet P from reverse end = 27-16=11

Memorise opposite pairs of alphabets

A-Z (Azhar)
B-Y (By)
C-X (Crux)
D-W (Door-wall)
E-V (Every)
F-U (Few)
G-T (G.T. Road)
H-S (Higher-secondary)
I-R (Indian Railway)
J-Q (Jaipur Queen)
K-P (Kala Pani)
L-O (Love)
M-N (Malviya nagar)

Now, let us discuss some of the questions:

Q:1. If CAMEL is coded as XZNVO, then how will ROAST be coded in that language?

Sol:
So, the code for ROAST in that language will be ILZHG.

Q.2. In a code language PAWAN is written as QBXBO, then how will JAMUNA be written in the same language?

Sol-

Similarly

So, the code of JAMUNA will be KBNVOB.

Q.3. In a code language ERECT is written as BUBFQ, then how will PERFECT be written in that language?

Sol-

Similarly

So, the code of PERFECT will be MHOIBFQ.

Q.4. If KAJAL is coded as 16x15x17, then how will MONAL be coded?

Sol-

So, the code for MONAL will be 18L19x17

Q.5 If AT=20, BY=50, then EAT=?

Sol:

AT = 1×20 = 20
BY = 2×25 = 50
∴ EAT = 5×1×20 = 100

So, the code for EAT is 100.

Cross coding: If the alphabets of a word are coded in crossed form, that type of coding is called cross coding.

Or

Or

Any other crossing
Q.6 In a code language EMPTY is coded as NFOZU, then how will KITES be coded in that language?

JLSTF
JLUTF
HJURD
FTSLJ

Sol:

So, the code for KITES will be JLSTF.

**Fixed coding of Alphabets:** When the alphabets of a word have fixed codes. In this type, questions have 2 or 3 words with their codes are given; and on the basis of the code, you have to find the code of the word asked in the question.

Q 7. If PAINT is coded as 63247. SHIRT is coded as 15297, then how would HAIR be coded?

5279
1982
5329
4291

Sol: Here each alphabet has fixed code so, the code of

\[
\begin{align*}
S & \rightarrow 1 \\
H & \rightarrow 5 \\
I & \rightarrow 2 \\
R & \rightarrow 9 \\
T & \rightarrow 7 \\
P & \rightarrow 6 \\
A & \rightarrow 3 \\
N & \rightarrow 4 \\
\end{align*}
\]

So, HAIR \rightarrow 5329
Q.8 In a code language, MOHAN is written as $ * @ & # and SOMAK is written as 6 * $ & ? ; then how would KANHA be written in that language?

Sol:
M O H A N
$ * @ & #

S O M A K
6 * $ & ?

K A N H A
? & # @ &

So, the correct answer would be (A) ? & # @ &

Q.9 If INDIA is coded as 95491, then how much JAPAN be coded?

17511
10116114
11715
11101461

Sol-
I N D I A
9 14 4 9 1 (1+4=5)

Similarly,
J A P A N
10 1 16 1 14
(1+0=1) (1+6=7) (1+4=5)

So, the code for JAPAN would be 11715

(B) Coding – Decoding of words and sentence:
In this type of questions, the word of a sentence is given a different code as different words. You have to decode the coding pattern and answer the question.

Q.10. If ‘rain’ is called ‘pink’, ‘pink’ is called ‘cloud’ ‘cloud is called ‘water’, water is called ‘bridge’, and ‘bridge’ is called ‘white’, then what will you drink while you are thirsty?
(A) Cloud        (B) Water        (c) Bridge        (d) Pink
Sol: We drink water while thirsty. Here, ‘water’ is called ‘bridge’ so, I’ll drink ‘bridge’ while thirsty.

Q.11. If ‘green pink dress’ is represented by ‘skw nip xtp’, ‘beautiful cotton dress’ is represents by mbv xtp rib and ‘beautiful pink button is represented by ‘tsu rib skw’ then which of the following will be represented by ‘mbv’?
(A) Button        (B) Cotton        (C) Beautiful        (D) Pink
Sol:
Green     Pink  dress→ skw nip xtp
beautiful cotton  dress→ mbv xtp rib
beautiful pink button→ tsu rib skw
So, the code of the words are as follows:
green → nip
pink → skw
dress → xtp
beautiful → rib
cotton → mbv
button → tsu
So, the word cotton will be represented by mbv.