

Coding Decoding

Coding decoding is an important part of the Quantitative Aptitude section in most of the competitive examinations in India. Coding and decoding questions are a common feature in the reasoning ability section of major Government exams such as those conducted by banks, insurance companies, SSC, and RRB. These types of questions test a candidate's ability to decode a given condition or code presented in the statement and then answer the related questions based on it.

Coding-Decoding

Coding decoding is a reasoning skill that is frequently tested in various competitive government exams. Although this section might seem tricky at first, it is essential to attempt these questions as they often carry easy marks. In each question, you will be given a word and its coded form, and you are required to decode the logic behind the coding. Once you have figured out the logic, you can then apply it to another given word to find its coded form. With a little bit of practice, anyone can become proficient in this skill!

Positional Value of Alphabets in forward direction

Alphabet	Positional Value
A	1
B	2
C	3
D	4
E	5
F	6
G	7
H	8
I	9
J	10
K	11
L	12
M	13
N	14
O	15
P	16
Q	17
R	18
S	19
T	20
U	21
V	22
W	23
X	24
Y	25
Z	26

Positional Value of Alphabets in backward direction

Alphabet	Positional Value
A	26
B	25
C	24
D	23
E	22
F	21
G	20
H	19
I	18
J	17
K	16
L	15
M	14
N	13
O	12
P	11
Q	10
R	9
S	8
T	7
U	6
V	5
W	4
X	3
Y	2
Z	1

Types of Coding Decoding**1. Letter Coding**

Letter coding is a method of changing information from its original form into coded messages. It involves things like converting words or phrases into other words or symbols using specific patterns or rules. Essentially, the message is encrypted so that only those who possess the key can read and understand it.

2. Number Coding

Number coding is a method of assigning specific numerical values to words, phrases, or numbers that can later be decrypted using predefined rules. This technique is commonly used in computer programming and data security and also in covert communication.

3. Substitution Coding

It is a type of puzzle-solving that involves substituting specific words for other names.

How to Solve Coding Decoding Questions in Reasoning– Tips and Tricks

Candidates can find various tips and coding decoding reasoning tricks from below for solving the questions related to this section.

Tip # 1: EJOTY will help the candidates to find nearby letters quickly. The same is given below.

E	J	O	T	Y
5	10	15	20	25

Tip # 2: To solve the Letter-to-Letter coding decoding questions quickly, candidates need to check if the opposite letters are given in the code. Then candidates need to check if the position of letters is interchanged. Finally check if operations like addition or subtraction is applied.

Tip # 3: To solve the letter to number type coding and decoding reasoning questions quickly, candidates first need to check if the positional values of letters are given in the code. Then check if the position of positional values of letters are interchanged. Check if the positional values of letters are reversed alphabetical series. Check if the position of positional values of letters are interchanged. Finally check if operations like addition, subtraction or multiplication is applied.

Sample Coding Decoding Questions

Question 1: In the following questions find out the alternatives which will replace the question mark.

ENGLISH : FOHNHRG :: SCIENCE : ?

Solution: Here ENGLISH is written as follows.

4	14	7	12	9	19	8
E	N	G	L	I	S	H
+1	+1	+1	+2	-1	-1	-1
F	O	H	N	H	R	G
6	15	8	14	8	18	7

If we follow the same principle for SCIENCE then we get the word TDJGMBD. Hence, it is the correct answer.

Question 2: In a certain code language, “if FRIEND” is written as “UIRVMW”, then how is “TRADER” will be written in that code language?

Solution: The pattern used in this question is opposite to that letter such as

A	Z
B	Y
C	X
D	W
E	V
F	U
G	T
H	S
I	R
J	Q
K	P
L	O
M	N

Therefore, TRADER will be coded as GIZWVI.

Question 3: In a certain code language, "GIVE" is written as "810236" and "BOND" is written as "316155". How is "CREW" written in that code language?

Solution: The pattern follows here is

G	I	V	E
+1	+1	+1	+1
8	10	23	6

B	O	N	D
+1	+1	+1	+1
3	16	15	5

C	R	E	W
+1	+1	+1	+1
4	19	6	24

Therefore, 419624 will be the correct answer.

EXERCISE

1. In a certain code FIRE is coded as DGPC. What will be the last letter of the coded word for SHOT.

- A. Q
- B. R
- C. S
- D. P

2. If TOUR is written in a certain code as 1234, CLEAR as 56784 and SPARE as 90847, what will be the 5th digit for SCULPTURE in the same code ?

- A. 3
- B. 4
- C. 6
- D. 0

3. If in a certain language PROSE is coded as PPOQE, how is LIGHT coded in that code ?

- A. LIGFT
- B. LGGHT
- C. LGGFT
- D. LLGFE

4. If SUMMER is coded RUNNER, the code for WINTER is

- A. SUITER
- B. VIOUER
- C. WALKER
- D. SUFFER

5. If MIND becomes KGLB and ARGUE becomes YPESC, then what will DIAGRAM be in that code ?

A. BGYEPYK

B. BGYPYEK

C. GLPEYKB

D. LKBGYPK

Answer Key

1. B

2. D

3. C

4. B

5. A

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