



Coding(Encryption)

Decoding(Decryption)

Types:-

- Type1: Letter Coding.
- Type2: Number Coding.
- Type3: Mixed coding
- Type4: Mixed number coding
- Type5:Decoding
- Type6:Symbols Coding

Alphabets in natural series are :

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

The Word **EJOTY** is very helpful in finding the position of the alphabet as:

E	J	O	T	Y
5	10	15	20	25

For example, if we want to find the position of the alphabet 'S', then as we know that 'T' is 20, so 'S' is $20 - 1 = 19$. Also, we can find the position of an alphabet from the end by subtracting its value from 27. For example, the position of D from the end is $27 - 4 = 23$.

The pattern below is very useful to find many types of question in Alphabet Series when we write the last 13 alphabets in front of the first 13 alphabets of the English:

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

1. Letter coding

A particular letter stands for another letter.

1. If **COURSE** is coded as **FRXUVH**, how is **RACE** coded as?

- (A) ABHF
- (B) UDFH
- (C) DUHF
- (D) WQYF



2. In a certain code, **MONKEY** is written as **XDJMNL**. How is TIGER written in that code ?

- (A) QDFHS
- (B) FHSQD
- (C) DQSFH
- (D) STFDQ

3. If **BOMBAY** is written as **MYMYMY**, how will **TAMILNADU** be written in that code ?

- (A) YMN YM NY MN
- (B) ABHABHABH
- (C) ABCDABCD
- (D) MNUMNUMNU

4. In a certain code, **TOGETHER** is written as **RQEGRJCT**. In the same code, what will **PAROLE** be written as?

- (A) PQJGNC
- (B) CNGJPQ
- (C) NCPQJG
- (D) NCJQPG

5. If in a certain language, **COUNSEL** is coded as **BITIRAK**, how is **GUIDANCE** written in that code ?

- (A) OHYFZJBB
- (B) OFHBJZYB
- (C) BJZYPBHFO
- (D) FOHYZJBB

2.Number coding

In this, either the numerals are assigned to the alphabets of the given code or the alphabets are assigned to the numerals. The candidate has to observe the direction of solving the problem.

1. If in a certain code, **TWENTY** is written as **863985** and **ELEVEN** is written as **323039**, how is **TWELVE** written in that code ?

- (A) 203863
- (B) 368302
- (C) 863203
- (D) 320368

2. In a certain code, if **LOGIC** is coded as **1512201824**, how is **PEARL** coded as?

- (A) 112226915
- (B) 113331596
- (C) 112226710
- (D) 113336734

3. If **APPLE** is written as **24991320**, how is **LOVELY** coded as?

(A) 13101310130

(B) 1310320130

(C) 13101350140

(D) 13101340120



4. If **ENGLAND** is written as **1234526** and **FRANCE** is written as **785291**, how is **GREECE** coded ?

- (A) 117186
- (B) 381191
- (C) 131871
- (D) 112235



5. If **Z = 52** and **ACT = 48**, then **BAT** will be equal to

(A) 39

(B) 41

(C) 44

(D) 46

3. Mixed coding (Language coding)

In this, three or more complete messages are given. The procedure to solve is any two messages bearing the common word are picked up. Proceeding similarly, all possible combinations of two messages are analyzed.



1. If **tee see pee** means **drink fruit juice**,
see kee lee means **juice is sweet**,
lee ree mee means **he is intelligent**,

then which word means sweet?

- A. See**
- B. Pee**
- C. Tee**
- D. Kee**

2. **'col tip mot'** means **'singing is appreciable'**,

'mot baj min' means **'dancing is good'**

'tip nop baj' means **'singing and dancing'**

then, which of the following means **'good'** in that code language ?

(A) Mot

(B) Bai

(C) Min

(D) Nop

3. If **white** is called **blue**, **blue** is called **red**, **red** is called **yellow**, **yellow** is called **green**, **green** is called **black**, **black** is called **violet** and **violet** is called **orange**, what would be the color of human blood?

- (A) Blue
- (B) Yellow
- (C) Black
- (D) Violet

4. If the animals which can walk are called swimmers, animals who crawl are called flying, those living in water are called snakes and those which fly in the sky are called hunters, then what will a lizard be called?

- (A) Flying
- (B) Swimmer
- (C) Snakes
- (D) Hunters

4. Mixed number coding

1: In a certain code language,

'8 5 1' means 'good sweet fruit',

'7 8 3' means 'good red rose'

'3 4 1' means 'rose and fruit'.

Which of the following digits stands for 'sweet' in that language ?

(A) 2

(B) 3

(C) 4

(D) 5



2. In a certain code,

2 is coded as **P**,

3 as **N**,

9 as **Q**,

5 as **R**,

4 as **A**

6 as **B**. How is **599423** coded in that code?

(A) QRQPAN

(B) RQQAPN

(C) AQPQRN

(D) QRANPA



Ex 3: In a certain code language, '123' means 'hot filtered coffee' , '356' means 'very hot day' and '589' means 'day and night'. Which digit stands for 'very' ?

- (A)3
- (B)6
- (C)9
- (D)7

Ex 4: In a certain code, '256' means 'you are good' ; '637' means 'we are bad' and '358' means 'good and bad'. Which of the following represents 'and' in that code ?

- (A) 5
- (B) 6
- (C) 7
- (D) 8

5. Decoding

Conversion of the coded numbers or alphabets to the original text. The procedure to decode is the same as coding. That is, find the pattern that is followed in the given series.

Ex 1: If in a certain language NZTUJGZ is coded as MYSTIFY , how is OFNFTJT decoded in that language?

- (A) REGULAR
- (B) MORNING
- (C) MINDFUL
- (D) NEMESIS



Ex 2: In a certain code, SQHOOKD is written as TRIPPLE. How CHRONRD is written in that code ?

- (A) GLITTER
- (B) TROUSER
- (C) JANUARY
- (D) DISPOSE

Ex 3: If HUMJTK is coded as FRIEND, how is EDRIRL written in that code ?

- (A) SUNDAY
- (B) MONDAY
- (C) BEAUTY
- (D) CANDLE



Ex 4: In a certain code language TUTDNES is written as STUDENT. How will SUORECS be written in that code language?

- (A) BATTERY
- (B) FASHION
- (C) SOURCES
- (D) LIMITED

6.SYMBOLS CODING

In this type of coding, symbols like !, @, # and so on will be used for coding the numbers or alphabets.

Ex 1: In a certain code 'TOME' is written as '@ \$ * ?' and ARE is written as ' • £ ? ' How can 'REMOTE' be written in that code?

- (A) ?*\$@? £
- (B) *\$@? £?
- (C) £?* \$@?
- (D) *\$? £@?



Ex 2: ZA5, Y4B, XC6, W3D, _____

(A) E7V

(B) V2E

(C) VE5

(D) VE7



Ex 3: DEF, DEF2, DE2F2, _____, D2E2F3

- (A) DEF3
- (B) D3EF3
- (C) D2E3F
- (D) D2E2F2



Ex 4: In a certain code 'PALM' is coded as '!@?\$', and 'ARM' is written as '@*\$', how can 'ALARM' be written in that code?

- A. @!@?\$
- B. @\$?!@
- C. ?@@!\$
- D. NONE OF THESE