

Coding and Decoding

Code Consists of Meaningful words

1. If 'dust' is called 'air', 'air' is called 'fire', 'fire' is called 'water', 'water' is called 'colour', 'colour' is called 'rain', and 'rain' is called 'dust', then where do fish live ?

Ans : Water is called as **colour**

2. If sky is called sea, sea is called water, water is called air, air is called cloud and cloud is called river, then what do we drink when thirsty ?

Ans : Water is called **air**

Codes based on English Alphabets

3. If AUTHORITY can be written as YTUROHTIA, how can DESIGNATE are written in that code?

Ans : Designate will be written as ESENGITAD

4. In a certain code language, MADRAS is coded as NBESBT, how is BOMBAY coded in that code ?

Ans : Refer to the English alphabets:

The rule of coding is +1 Every letter is moving one step forward

∴ BOMBAY is coded as CPNCBZ

5. In a certain code, COMPUTER is written as RFUVQNPC. How is MEDICINE written in the same code ?

Ans : EOJDJEFM

- There are 8 letters in the word.

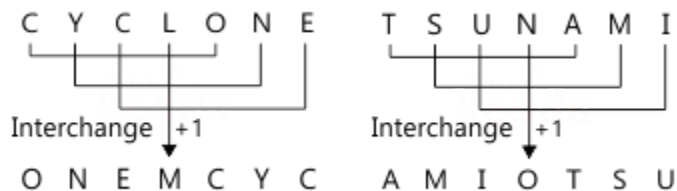
- The coded word can be obtained by taking the immediately following letters of word, except the first and the last letters of the given word but in the reverse order. That means, in the coded form the first and the last letters have been interchanged while the remaining letters are coded by taking their immediate next letters in the reverse order.

6. If 'CAMEL' is coded as ECNCJ, then what is the code for 'TIGER'?

Ans : As,

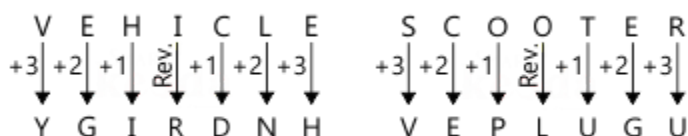
C	A	M	E	L		T	I	G	E	R
+2	+2	+1	-2	-2		+2	+2	+1	-2	-2
↓	↓	↓	↓	↓		↓	↓	↓	↓	↓
E	C	N	C	J		V	K	H	C	P

7. If 'CYCLONE' is coded as ONEMCYC then what is the code for 'TSUNAMI'?



8. If 'VEHICLE' is coded as YGIRDNH then what is the code for 'SCOOTER'?

Ans :



9. If 'THEN' is coded as UIDO, 'THUS' is coded as UITT then what is the code for 'WHEN'?

Ans : In the given word, vowel is replaced by the letter immediately preceding it in the english alphabet series while the consonant is replaced by the letter immediately succeeding it in the English alphabet series.

In this way we get the code for WHEN as XIDO.

Codes based on Numbers and Symbols

10. In a certain code ROSE is written as #43\$ and FIRST is written as 5*#37. How is STORE written in that code?

Ans: In a certain code ROSE is written as #43\$ and FIRST is written as 5 *#37. How is STORE written in that code ? Hence, we can code STORE as 374#\$.

- 11.If “LESD” is written as “ @ \$ & # “ , “NAC” is written as “ % ? * “ , how “CANDLES” is coded in the same way?

Answer: In the code, we can see that the code for L is @. Building on to that we can see that the option B) *?%&@\$# is the correct option.

12. If DELHI is coded as 73541 and CALCUTTA as 82589662, how can CALCUT be coded ?

Ans: Since, in CALCUT, C is coded as 8, A is coded as 2, L as 5, I as 1, U as 9, T as 6. So, code for CALCUT IS 8251896.

13. If ROSE is coded as 6821, CHAIR is coded as 73456 and PREACH is coded as 961473, what will be the code for SEARCH ?

Ans : As per the codes given

ROSE=682 CHAIR=73456 PREACH=961473

Code for SEARCH will be=214673

14. In a certain code language, if the number 1 is assigned to all the letters in odd numbered places in the alphabet and the remaining letters are assigned the number 2, then what is The code for the word 'DANCE'?

Ans : The question here states that all oddly occurring alphabets will be assigned the code '1' and all the evenly occurring alphabets will be assigned code '2'. Hence, A=1, B=2, C=1, D=2 and so on. This implies that the code for the word 'DANCE' will be 21211.

Codes based on words

15. In a certain code language, if the value of CONTRACT = 56 and 'GROWTH' = 30, then what is the value of DISTRIBUTION?

Ans : Multiply the number with its previous number, so $8 * 7 = 56$. Number of letters in the word GROWTH = 6, and $6 * 5 = 30$. Similarly, Number of letters in the word DISTRIBUTION = 12. $\Rightarrow 12 * 11 = 132$.

16. In a certain language, TEARS is coded as 18, so how will be WATER coded
Numeric position of each letters is first added until it reaches to a single digit number and then all the numeric values are added.

T=20 so $2+0=2$, E=5, A=1, R=18, $1+8=9$

S=19, $1+9=10$, $1+0=1$; $2+5+1+9+1=18$

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

Ans : Z = 52 and ACT = 48

If the alphabet are written in serial number and each alphabet is give the code equal to its serial number.

then, $Z=2 \times 26=52$

$ACT=2(1+3+20)=48$

Thus, $BAT=2(2+1+20)=46$

18. If SNOW is coded as 7100, then WALL will be coded as

Here, Total of all the individual letters' numeric position is done and just to add some more complexity 00 is appended at the end. S=19, N=14, O=15 and W=23. So $19+14+15+23=7100$.
Wall = $23+1.12+12=48$ so 4800.

Coded Sentence

19. In a certain code language, (A) 'pic vic nic' means 'winter is cold.' (B) 'to nic re' means 'summer is hot'. (C) 're pic boo' means 'winter and summer'. (D) 'vic tho pa' means 'nights are cold'. Which word in that language means 'summer' ?

a) nic b) re c) to d) pic

Ans : From Statements 1 and 2 nic means is

From statements 1 and 3 pic means winter

Therefore, from statements 2 and 3 re means summer

20. In a certain code language, '134' means 'good and tasty', '478' means 'see good pictures' and '729' means 'pictures are faint'. Which of the following digits stands for 'see'?

Ans : By comparing, we get

4=good 7=pictures 8=see So, 8 stands for see.

21. In a certain code language, 'col tip mot' means 'singing is appreciable' ; 'mot baj min' means 'dancing is good' and 'tip nop baj' means 'singing and dancing' , which of the following means 'good' in that code language ?

Ans : In the first and second statements, the common code word is 'mot' and the common word is 'is'. So, 'mot' means 'is'.

In the second and third statements, the common code word is 'baj' and the common word is 'dancing'.

So, 'baj' means 'dancing'. Thus, in the second statements, 'mint' means 'good'.

22.. 'good time to buy' is written as 'sy bo nj kw'

'invest money and time' is written as 'sy ta ge mr'.

'buy good stuff only' is written as 'kw bo rd fp'.

'only work and money' is written as 'ta fp mr ux'.

What is the code for "invest time to work" in that code language?

Ans :

S1:	good	time	to	buy
Code:	sy	bo	nj	kw
S2:	invest	money and	time	
Code:	sy	ta	ge	mr
S3:	buy	good	stuff	only
Code:	kw	bo	rd	fp
S4:	only	work	and	money
Code:	ta	fp	mr	ux

On comparing the words & their respective codes from S1, S2, S3 & S4 we get code of 'invest time to work' is 'ux ge nj sy'