### **CODING-DECODING**

Similarly,

**CODING-DECODING**:- Coding-Decoding is a secret language, which is used to change the representation of the actual terms or value of given words/letters/digits. The language of coding-decoding can be of different types.

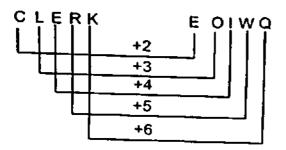
Example (1) In a certain language CLERK is written as EOIWQ. How is TABLE written in that code?

- (1) VCDNG
- (2) VCDGN
- (3) VDFQK

Similarly,

(4) VDFOK

Sol. (3):



+2 +3 +4 Example (3) In a certain language TWENTY is written as 863985 and ELEVEN is written as 323039 How is TWELVE written in that code?

- (1) 863230
- (2) 863303
- (3) 836203
- (4) 863203

Spl. (4):

Here, according to equation (I) and (II), two letters E and N are common and the place value of E and N is 3 and 9. So the place value of other letters will be as follow: T = 8, W = 6, E = 3, N = 9, T = 8, Y = 5, L = 2, V = 0. Then, TWELVE = 863203.

written as SQHOOKB. How is DISPOSE written in that code?

(1) CHROMRD

(2) CHROMSD

(2) CHROMSD

(3) CHROMSD

(4) In a certain lan written as %57\$, DOUBT is wand LIVE is written as %57\$.

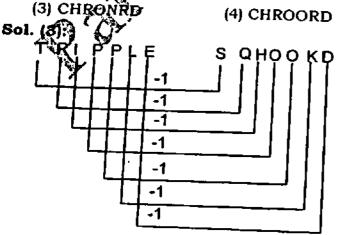
D FQ K

Example (4) In a certain language ROPE is written as %57\$, DOUBT is written as 35#8\* and LIVE is written as @24\$. How is TROUBLE written in that code?

- (1) \*%5#8@\$
- (2) \*%#58@\$
- (3) \*%5#8@4
- (4) \*%#58\$@

Sol. (1):

Therefore,



Example (5) In a certaing language 'tom kun (v) sud' means 'dogs are barking', 'kun jo mop' means 'dogs and horses' and 'mut tom ko' means 'donkeys are mad', Which word in that language means 'barking'?

- (1) sud
- (2) kun
- (3) hi
- (4) tom

Sol. (1): In the first and second statements, the (ii)-(3):  $\frac{1}{4}$   $\frac{1}{7}$   $\frac{1}{5}$   $\frac{1}{8}$  # common code-word is 'kun' and the common word is 'dogs'. So 'kun' means 'dogs'.

In first and third statements, the common codeword is 'tom' and the common word is 'are'. So. 'tom' means 'are'. Thus in the first statement, 'sud' means 'barking'.

Example (6) If 'cages' are called 'rockets', 'rockets' are called 'traps', 'traps' are called 'planets', 'planets' are called 'aeroplanes', 'aeroplanes' are called 'cycles' and 'cycles' are called 'cars', what is Earth?

- (1) cycles
- (2) rockets
- (3) planet
- (4) aeroplanes

Sol. (4): Earth is a 'planet' and here 'planets' are called 'aeroplanes'. So 'carth' will be called aeroplane.

Example (7) In each question below is given a group of letters followed by four combinations. of digits/symbols numbered (a), (b), (3) and (d). You have to find out which of the combinations correctly represents the group of letters based on the following letter coding system and mark the number of that combination, as the answer.

: DLEGZKRÚBWFHIAP

Digit/symbol: 4 8 \$ 1 # 5 7 0 2

#### Conditions:

- If the first letter is a vowel and the last is (i) a consonant both are to be coded as the code of the consonant.
- If both first and the last letters are (ii) consonants, both are to be coded  $\delta$
- If Erst letter is a consonant and last is a sowel the codes for first and last letters are to be interchanged.
- ELBGPU (1) \$821@© (i)
- (2) ©821@\$
- (3) \$821©@
- (4) \$812@©
- UHRKLZ (1) ©\*758© (ii)
- (2) ©\*758#
- (3) #\*758#
- (4) \$%3462
- BFIDWE (1) 2%346\$ (iii)
- (2) %3426\$ (4) \$2%634
- (3) \$%3426
- (2) 651829
- (iv)- WKGLBA (1) 951862
- (3) 651892
- (4) 951826

ZEFHIR (1) #\$%\*37 (2) 8\$%\*38 (3) 7\$%\*3# (4) #%\$\*37 ELBG PU

Sol 7(i)-(1): \$ 8 2 1 @ ©

Here, Condition (1) follows.

UHRKLZ

Here, Condition (I) follows.

BFIDWE (iii)-(4):

Here, Condition (III) follows

w kg l b 🔊 (iv)-{4}:

Here, Condition (III) follows.

ZEFHTR"

Here, Condition (II) follows.

#### Exercise:

- In a certain code, TERMINAL is written as SDQLJOBM. How is CREDIBLE written in that code?
- (1) BQDCJCMF (2) DSFEJCMF
- (3) BQDCHAKD (4) DSFEHAKD
- (5) None of these
- In a certain code language LABOUR is written as KBAPTS. How is CANDID written in that code language?
  - (1) DBOEJE
- (2) DZOCJC
- (3) BBMCHC
- (4) BBMEHE
- (5) None of these
- In a certain code language CONSUMER is written as ERUMNSCO. How will TRIANGLE be written in that code language?
  - (1) LENGIATR (2) ELNGIATR
  - (3) LEGNIATR (4) LEGNAITR
  - (5) None of these
- In a certain code language BREAKDOWN 4. is written as NWODKAERB. How will TRIANGLES be written in that code language?
  - (1) AIRTGNSEL (2) SELGNTRIA
  - (3) AIRTNSELO (4) SELGNAIRT
  - (5) None of these

5.	In a certain Yoursman book, is written as 51342 and KITE is written as 2796. How will RIB be written in that code language?				Verestians in each of these questions a group of letters is given followed by four combinations of digit/symbol numbered (1), (2), (3) & (4). Letters are to be coded as per the scheme and conditions given below. You				
	(1) 175	(2) 176	(3) 185	INC:	вспе	me anu co	onuilions viv	en helam v.	
	(4) 135	(5) None of	these	nave	e to	una out	the serial n	umber at	
6.	In a certain code, 'SPRING' is written as '#2%@4=' and 'GONE' is written as '=74©'. How would 'SIGN' be written in the same code?			your answer. If none of the combinations is					
	(1) #@4=	(2) 2@=4	(3) #@=4	Lette	-	FG	AKMEŞPL	©≠ ∕∩ B H D I m	
	(4) #%=4	(5) None of	these						
<ol> <li>8.</li> </ol>	In a certain code FIGHT is written as '39%@4' and TEARS is written as '458©*'. How is STAGE written in that code?			Digit/Symbol: 9 % 2 \$ * 7 @ 8 1 6 5 © 4 # 3  Conditions:  (i) If the first letter is a vowel and the last					
	48.4.4.							to be coded as	
	(4) *48@5	(2) *48%5	(3) *84%5				the vowel.		
	_	(5) None of						sonant and the	
	In a certain code language 'tree is very beautiful' is written as 'ka na da ta' and 'this is strong tree' is written as 'na pa sa ka'. How is 'beautiful' written in that code language?				f (iii)	be last let f both the	ters are to be first and the	or the first and interchanged. last letters are e coded as ' $\delta$ '.	
	(1) da (4) Data inad	(2) ta equate (5) N	(3) sa	ٷ	t	he group	of letters, all	s are there in vowels are to	
9.	In a certain co 'book is thic heavy', 'ka si' 'de ti' means '	ode language k', 'ti na re' means 'intere that bag'. Wha	'si po re mean's means 'bag is sting book' and atishould stand	12.	TEF:	oe coded a SUM :79@© & :79@ & ©	s £. (2) 379@©* (5) None of t	_	
	for 'that is interesting' in that code language?		13.	BSQ	EGU				
	(1) ka re na	(2) desigre	<b>,</b>			@67%©		6 (3) ©@67%©	
	(3) ti po ka	(4) de re ka			-	@67©%	(5) None of t	hese	
	(5) None of the	23 43		14.	KAG				
10.	If 'black' is called 'red', 'red' is called					32%9©5	(2) 52%9©\$	(3) \$2%©95	
	white', 'white is called 'brown', 'brown' is called 'yellow', 'yellow' is called 'blue' and blue' is called 'green', then what is the			(4) <i>8</i>	3%9©δ	(5) None of t	hese		
			n what is the	15.	AQU	MTE			
	colour of milk?				(1) 7	6©*32	(2) £6£*3£	(3) 26©*32	
	(I) blue	(2) green	(3) white		(4) 2	6©*23	(5) None of		
1 1	(4) réd	(5) None of t		16.	IPKU	JSR			
11.	If 'green' is called 'white', 'white' is called 'yellow', 'yellow' is called 'blue', 'blue' is called 'pink' and 'pink' is called 'black', then what is the colour of milk?				(1) #	8\$©@#	(2) 48\$©@#	(3) #8\$©@4	
					(4) #	8\$4@	(5) None of		
				17.	MGS	ELI		<b>-</b>	

(1) \*%@71#

(2) \*%@17# (3) #%@71\*

(4) %#@17\*

(5) None of these

(3) pink

(1) green

(4) yellow

(2) blue

(5) None of these

# yours mahboob. word press. com

			26.	ABUHFI	
18 -			20.		
		753648		(1) ©217#\$	(2) ©721#© (3) \$721#\$
		ALDPAFR		(4) ©72#1\$	(5) None of these
	Conditions for	coding the group of digits:-	27.	WPTMBI	
	I. If the first a	s well as the last digits are		(1) \$46%73	(2) 346%7\$ (3) 346%73
		re to be coded by the code		(4) \$46%7\$	(5) None of these
	for the first	s well as the last digits are	28.	FHITWU	, Ø ,
		re to be coded by the code		(1) #1\$63#	(2) 21\$632 (2) #1#632
	for the last			(4) 21\$63#	(5) None of these
18.	397416		29,	HUDBRE	
	(1) PBLFMP	(2) ABLFMA (3) PVLFMA		(1) 127*98	(2) 12*798 (3) 82*791
	(4) PBDFMA	(5) None of these		(4) 8*2791	(5) None of these
19.	562183		20	, ,	10) Notice of the se
	(1) PAVMRP	(2) DAVMRD (3) PAVMRD	30.	IMPNWK	(0.000 (2) \$%4@3\$
	(4) DAVMRP	(5) None of these		(1) 5%4@3\$	(2) \$%4@35 (3) \$%4@3\$
20.	734192			(4) 5%4@35	(5) None of these
	(1) DPFMBV	(2) LPAMBV (3) LPFMVB	31 -	A P 1020A . A	<b>)</b>
	(4) LPFMBV	(5) None of these	Lette		EGZKRUBWFHIAP
21.	812354		Digi	/Symbol 4 8 S	\$1#5 7©26 %*39@
	(1) RLVPDF	(2) FMVPDF (3) RMVPDR	Con	dicions:	
	(4) RMVADF	(5) None of these	(		etter is a vowel and the last
22.	627851				nant, both are to be coded
	(1) PULRDM	(2) AVLRDM (3) AULRDM			of the consonant.
	(4) ABLRDM	(5) None of these	•	` '	st and the last letters are both are to be coded as ' $\delta$ '.
23 -	· 30:		<b>94</b>	1	
Lette		KATREUNHFR	1 7	r is a consonant and last is ne codes for first and last	
Digit/Symbol: 7 % 5 © 6 9 8 2 @ \$ \$ 3 * 4				•	to be interchanged.
Cor	ditions :		31.	ELBGPU	
	(i) If the first l	etter is a vowel and the last		(1) \$821@©	(2) ©821@\$ (3) \$812©@
	letter is a	consonant, both are to be he code for the vowel.		(4) \$812@	(5) None of these
	Coded as u	etter is a consonant and the	32	UHRKLZ	(b) None of these
	(11) If the lifs( )	is a vowel, codes for these	34.		(O) @+750# (O) #+750#
	two are to	be interchanged.		(1) ©*758©	(2) ©*758# (3) #*758#
		first and the last letters are		(4) #*758©	(5) None of these
	consortant	s, both are to be coded as	33.	BFIDWE	
	the code	r the last letter.		(1) 2%346\$	(2) %3426\$ (3) \$%3426
		the above, find out the coded		(4) \$2%634	(5) None of these
		groups given in each question.	34.	WKGLBA	
23	<b>*2A</b>		•	(1) 951862	(2) 651829 (3) 651892
	(1) <b>9</b> @3*8#	(2) #@3*8# (3) #@3*89		(4) 951826	(5) None of these
~ ~	(4) #3 @8#	(5) None of these	35.	ABWUPF	
24		10) 0.00000		(1) %26©@%	(2) %26©@9 (3) 926©@%
	(1) %©6973	(2) 3©6973 (3) %©697%		(4) %269@	(5) None of these
		IN NOMA AT PROGA			
25	(4) 3©697% i. Edekta	(5) None of these	36.	• •	•
25	. EDPKTA		36.	ZEFHIR	
25	: :	(2) ©*4568 (3)-8*4569 (5) None of these	36.	• •	(2) \$\$%*3\$ (3) 7\$%*3# (5) None of these

Directoins (37 - 40): In certain code language 0 (zero) is coded as u and 1 is coded as ... Numbers do not have any other sign and any number above 1 is written by using either of the two symbols. If the value of 1 is doubled, it itself moves left by one place. In this way-

- 0 is written as U
- l is written as .
- 2 is written as \* U
- 3 is written as \* \*
- 4 is written as \* upand this continues.
- 37. If \*\*\* is multiplied with \*\* then the product is -
  - (1) \* \* \* \* \*
- (2) \* \* \* \* \* (3) \* \* \* \* \*
- (4) \* \* \* \*
- (5) \* • •
- 38. How can we code 20% of 45.
  - (1) \* \* \* \*
- (2) \* \* \*
- (3) \* • \*

- (4) \* \* \*
- (5) \* \* \* •
- 39. How can be code 7 in this code language?
  - (1) \* \* \* \* \* \*
- (2) \* \* \* \* (3) \* \* •
- (4) \* • \*
- ٠,
- 40. If •• ∪ is added to ∪ •• then the sum is
  - (1) \* \* \* \* \*
- 2) \* • \* (3)
- (4) \* • \* \*
- (5) \* \* \* •

#### Answer with Explanations:

1. 1; T E R M I N A E

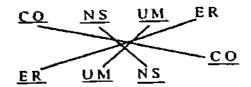


2. 1 A B O U R 1 |+1 |-1 |+1 |-1 |+1 K B A P T S

Similary,

C A N D | D -1 -1 -1 -1 -1 -1 -1 -1 B B M E H E

3. 1; Since.

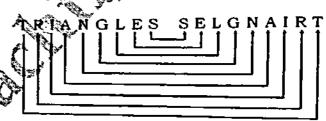


Similary,



BREAKDOWN NWODKAERB

Similarly



and,

K I T E l l l 2 7 9 6

Therefore,

R I B I I 1 7 5

6. I; S P R I N G
| | | | | | | |
# 2 % @ 4 = and.

S I G N
| | | | |
# @ = 4
7. 2; F I G H T

```
Clearly, code for 'that is interesting' will
           9 % © 4
                                                        be 'de re ka',
       and,
                                                 10.5; The colour of milk is white. But here
          EARS
                                                        white is called brown.
                                                 11.4; The colour of milk is white. But here
                                                        white is called yellow.
              8 © H
                                                 12.1
       Similary,
                                                 13.5; (@@67%5)
                                                 14.4
                                                        15.2
                                                               16.1
                                                                      17.3
                                                 20.4
                                                        21,3
                                                               22.2
                                                                      23.2
               8 % 5
                                                 26.5
                                                        27.1
                                                               28.4
       Tree is very beautiful
8. 4;
                                                 32.3
                           ⇒ ka na da ta...(i)
       This is strong tree
                                                 37.1;
                           ⇒ na pa sa ka...(ii)
               ⇒ na /ka
          tree ⇒ na /ka
       Clearly,
       code for 'beautiful' cannot be found.
9. 4; si po re \Rightarrow book is thick..... (i)
       ti na re = bag is heavy ..... (ii)
                ⇒ interesting book ..... (iii)
                ⇒ that bag ..... (iv)
       de ti
       According to equation (i) and (ii)
                                                         (4+2+0)+(8+0+2+1)
       According to equation (ii) and (iv), bag = ti
       So, that = de
                                                         =(16+0+0+0+1)
       According to equation (i) and (iii), book
       So, Interesting = ka
```