



Date : 9th Dec 2023

Logical Reasoning - CODING DECODING

English

Q:1 If in a certain code language, ELEMENT is coded as 50, TRAVEL is coded as 64, then how will HONEST be coded in that language?

1. 54
2. 56
3. 50
4. 62

Q:2 In a certain code language, 'Ravi is doctor' is coded as 'mn or sp', 'Divya is teacher' is coded as 'or jt hf', and 'Doctor and teacher' is coded as 'jt mn bd'. Then what will be the code of 'teacher' in the same coded language?

1. or
2. mn
3. jt
4. hf

Q:3 In a certain code language, 'tea is hot' is coded as 'ew sa cv', 'coffee is cold' is coded as 'sa gj hf', 'Ram likes tea' is coded as 'rt ew po', and 'Ram hates coffee' is coded as 'hf po xz'. Then what will be the code of 'coffee' in the same coded language?

1. ew
2. xz
3. sa
4. hf

Q:4 If in a certain language HERITAGE is written as J5T9VII5 and JOKER is written as L15M5T, then how will MEAGRE be written in that language?

1. O6C8T5
2. O5C7T5
3. N5C7T5
4. N5C8T5

Q:5 If in a certain code language, 'Marry' is written as '65', 'Devil' is written as '20'. Then, how is the word 'Proud' written in the same code language?

1. 70
2. 80
3. 90
4. 100

Q:6 In certain languages, the word DNEIRP is written as HQGMUR. How will you write OEPELF in the same language?

1. SHRIOF
2. SHRISW
3. SHRIOK
4. SHRIOH

Q:7 In certain languages, the word ZFDB is written as AUWY. How will you write EQFA in the same language?

1. VJAW
2. VJUM
3. VJUJ
4. VJUH

Q:8 In a certain code language, 'SPACE' is written as '12'. How will 'TAKEN' be written in that language?

1. 3
2. 1
3. 5
4. 7

Q:9 In a certain code language, 'QWARL' is written as '26'. How will 'TRAPE' be written in that language?

1. 22
2. 21
3. 26
4. 28

Q:10 If in a certain code language, 'RIVER' is written as '59181822', 'DAIRY' is written as '1491825'. Then, how is the word 'MENTOR' written in the same code language?

1. 13512201518
2. 51314151820
3. 51215121820
4. 51213152018

Answer Key

1. (2)	2. (3)	3. (4)	4. (2)	5. (2)
6. (4)	7. (3)	8. (2)	9. (1)	10. (2)

Answers and Solutions

Q:1 The correct answer is **Option 2** i.e. **56**

The logic followed here is:

(Sum of the positional value of first and last letter of the word) $\times 2$

ELEMENT = 50

$(5 + 20) \times 2 = 50$

TRAVEL = 64

$(20 + 12) \times 2 = 64$

HONEST,

$(8 + 20) \times 2 = 56$

Hence, the correct answer is **56**.

Q:2 The correct answer is **Option 3** i.e. **jt**

Here, from the given codes are:

Ravi (is) doctor \rightarrow mn (or) sp

Divya (is) teacher \rightarrow or jt hf

Doctor and teacher \rightarrow jt mn bd

doctor - mn

is - or

Teacher - jt

Ravi - sp

Divya - hf

and - bd

So, the code for the word 'teacher' is 'jt'.

Hence, the correct answer is **jt**.

Q:3 The correct answer is **Option 4** i.e. **hf**

Here, from the given codes:

Tea (is) hot \rightarrow ew sa cv

Coffee (is) cold \rightarrow sa gj hf

Ram likes tea \rightarrow rt ew po

Ram hates coffee \rightarrow hf po xz

is - sa

tea - ew

hot - cv

Ram - po

coffee - hf

cold - gj

likes - rt

hates - xz

So, the code for the word 'coffee' is 'hf'.

Hence, the correct answer is **hf**.

Q:4 The correct answer is **Option 2** i.e. **O5C7T5**

Logic:

1. The letter at the odd place is replaced by the second letter following it in the English alphabetical series.

2. The letter at even place is replaced by its actual place value in the English alphabetical series.

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
Z	Y	X	W	V	U	T	S	R	Q	P	O	N
26	25	24	23	22	21	20	19	18	17	16	15	14

HERITAGE is written as J5T9V115.

Word HERITAGE

Code J5T9V115

JOKER is written as L15M5T.

Word JOKER

Code L15M5T

Similarly, the code for MEAGRE will be

Word MEAGRE

Code O5C7T5

Hence the correct answer is **O5C7T5**.

Q:5 The correct answer is **Option 2** i.e. **80**

The positional value of the first letter of a word is multiplied by the total number of letters in that particular word.

Marry $\rightarrow M - 13 \rightarrow 13 \times 5 = 65$,

Devil $\rightarrow D - 4 \rightarrow 4 \times 5 = 20$

Code for the word 'Proud' will be:

P - 16

$16 \times 5 = 80$

Hence, **80** is the correct answer.



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English

Q:6 The correct answer is **Option 4** i.e. **SHRIOH**

DNEIRP = HQGMUR

D = D + 4 = H

N = N + 3 = Q

E = E + 2 = G

I = I + 4 = M

R = R + 3 = U

P = P + 2 = R

Similarly,

OEPELF = SHRIOH

O = O + 4 = S

E = E + 3 = H

P = P + 2 = R

E = E + 4 = I

L = L + 3 = O

F = F + 2 = H

So, OEPELF = SHRIOH

Hence, the correct answer is **SHRIOH**.

Q:7 The correct answer is **Option 3** i.e. **VJUZ**

ZFDB = AUWY

Z ⇔ A

F ⇔ U

D ⇔ W

B ⇔ Y

Similarly,

EQFA =

E ⇔ V

Q ⇔ J

F ⇔ U

A ⇔ Z

So, EQFA = VJUZ

Hence, the correct answer is **VJUZ**.

Q:8 The correct answer is **Option 2** i.e. **1**.

The **logic** used here is: Digital sum of (Positional value of first letter × Positional value of 2nd last letter)

SPACE = S (19) × C (3) = 57 = 5 + 7 = 12

Similarly,

TAKEN = T (20) × E (5) = 100 = 1 + 0 + 0 = 1

'TAKEN' will be written as '1'.

Hence, **1** is the correct answer.

Q:9 The correct answer is **Option 1** i.e. **22**

The **logic** used here is: (Positional value of

first letter + positional value of last letter) - 3

QWARL = Q = 17, L = 12

(17 + 12) - 3

= 29 - 3

= 26

Similarly, TRAPE = ?

T = 20, E = 5

(20 + 5) - 3

= 25 - 3

= 22

So, **TRAPE = 22**

Hence, **22** is the correct answer.

Q:10 The correct answer is **option 2** i.e. **51314151820**.

The pattern is as follows:

The letters of a word are first arranged in alphabetical order and then positional values of these letters are written as codes.

RIVER → EIRRV → 59181822

DAIRY → ADIRY → 1491825

Similarly,

MENTOR → EMNORT → **51314151820**

Positional value table is as follows:

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
Z	Y	X	W	V	U	T	S	R	Q	P	O	N
26	25	24	23	22	21	20	19	18	17	16	15	14