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**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**. it
- **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?

- I. 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?

- I. VJAW
- 2. VJUM
- 3. VJUZ
- 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

















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# Answer Key

<b>1.</b> (2)	<b>2.</b> (3)	<b>3.</b> (4)	<b>4.</b> (2)	<b>5</b> . (2)	
<b>6.</b> (4)	<b>7.</b> (3)	<b>8.</b> (2)	<b>9.</b> (1)	<b>10</b> . (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) × 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. it

Here, from the given codes are:

Ravi











teacher





Doctor





doctor - mn

is - or

Teacher - jt

Ravi - sp

Divya - hf

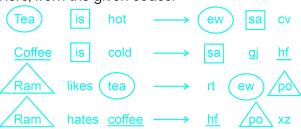
and - bd

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

Hence, the correct answer is it.

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

Here, from the given codes:



is - sa

tea - ew

hot - cv

Ram - po

coffee - hf

cold - gi

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.

Α	В	С	D	Е	F	G	Н	1	J	K	L	М
1	2	3	4	5	6	7	8	9	10	11	12	13
Z	Υ	Х	W	٧	U	Т	S	R	Q	Р	0	N
26	25	24	23	22	21	20	19	18	17	16	15	14

HERITAGE is written as J5T9V115.

**Word**HERI TAGE Code J 5T9V1I 5

JOKE<mark>R is</mark> written as L15M5T.

Word JO K ER Code L15 M5T

Similarly, the code for MEAGRE will be

**Word MEAGRE** Code 0 5 C 7 T 5

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

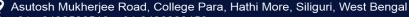
Code for the word 'Proud' will be:

P - 16

 $16 \times 5 = 80$ 

Hence, 80 is the correct answer.





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# Logical Reasoning - COding Decoding

**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

1 = 1 + 4 = M

R = R + 3 = U

P = P + 2 = R

Similarly,

OEPELF = SHRIOH

0 = 0 + 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

 $\mathsf{Z} \Leftrightarrow \mathsf{A}$ 

 $\mathsf{F} \Leftrightarrow \mathsf{U}$ 

 $D \Leftrightarrow W$ 

 $B \Leftrightarrow Y$ 

Similarly,

EQFA =

 $E \Leftrightarrow V$ 

 $\mathsf{Q} \Leftrightarrow \mathsf{J}$ 

 $\mathsf{F} \Leftrightarrow \mathsf{U}$ 

 $\mathsf{A} \Leftrightarrow \mathsf{Z}$ 

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 =  $S(19) \times C(3) = 57 = 5 + 7 = 12$ 

Similarly,

TAKEN =  $T(20) \times E(5) = 100 = 1 + 0 + 0 = 1$ 

'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 of the value of

first letter + positions 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

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

The pattern is as follows:

Hence, 22 is the correct answer.

So. TRAPE = 22

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

RIVER  $\rightarrow$  EIRRV  $\rightarrow$  59181822

DAIRY → ADIRY → 1491825

Similarly,

MENTOR  $\rightarrow$  EMNORT  $\rightarrow$  51314151820

Positional value table is as follows:

1	Α	В	С	D	Е	F	G	Н	1	J	K	L	М
	1	2	3	4	5	6	7	8	9	10	11	12	13
	Z	Υ	Х	W	٧	U	Т	S	R	Q	Р	0	N
	26	25	24	23	22	21	20	19	18	17	16	15	14



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