



Date : 15th Jan 2024

Logical Reasoning - Coding Decoding

English

Q:1 If in a certain code language, 'TORPID' is written as 'HMJLSX', 'GAUGE' is written as 'UAGUW'. Then, how is the word 'PENCIL' written in the same code language?

1. LWMYSP
2. LWNYSY
3. KVMXRO
4. PSYNWL

Q:2 If DIPLOMAT is coded as 3581015171113141612142621921, then what is the code for the word TACTLESS?

1. 192126224192111134618201820
2. 192126224192111134618201802
3. 192126224192111134612801820
4. 192126224291111134618201820

Q:3 If in a certain code language, 'SHARE' is written as 'ERAHS', 'MOVIE' is written as 'EIVOM'. Then, how is the word 'CABLE' written in same code language?

1. LEBCA
2. ELBAC
3. EABLC
4. CLBAE

Q:4 If in a certain code language, PICTURE is coded as 346, CAMERA is coded as 34, HIGH is coded as 14, then how will TRAINING be coded in that language?

1. 62
2. 64
3. 624
4. 324
5. 432

Q:5 If COLOURS is coded as 14 and BACKS is coded as 10, then what will be the code for MEDITATION?

1. 61
2. 22
3. 20
4. 57

Q:6 In a certain code language, 'REAR' is coded as SDZS and 'PICK' is coded as QHDL. How will 'GRIP' be coded in that language?

1. HSBQ
2. HSJQ
3. HSHQ
4. HDGK

Q:7 In a certain code language, 436 means 'They are playing' and 245 means 'We read books'. Which of the following is the code for 'Light is blue'?

1. 435
2. 524
3. 534
4. 546

Q:8 In a certain code language, 'CLEAR' is coded as XODZI and 'TRICK' is coded as GIHXP. How will 'GIRLS' be coded in that language?

1. THIIH
2. THIOH
3. TRIOH
4. THIOR

Q:9 In a certain code language, SCIENCE is written as 21-5-11-7-16-5-7. How will MUSEUM be written in that code language?

1. 13-21-6-21-21-13
2. 14-22-5-5-22-14
3. 15-23-21-7-23-15
4. 13-23-7-21-23-13

Q:10 In a certain code, COLLUDE is written as X2001W4. How will REGARDING be written in that code?

1. J401G32NR
2. J305G32ML
3. I301G32MT
4. I4T5IW3MT

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Answer Key

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

Answers and Solutions

Q:1 The correct answer is **option 2 i.e. LWNYS**.

Understanding	Application
<p>The pattern is as follows:</p> <p>Next letter of the opposite letter</p> <p>TORPID → T ↔ G + 1 = H, O ↔ L + 1 = M, R ↔ I + 1 = J, P ↔ K + 1 = L, I ↔ R + 1 = S, D ↔ W + 1 = X ⇒ HMJLSX</p> <p>GAUGE → G ↔ T + 1 = U, A ↔ Z + 1 = A, U ↔ F + 1 = G, G ↔ T + 1 = U, E ↔ V + 1 = W, ⇒ UAGUW</p>	<p>Similarly,</p> <p>PENCIL → P ↔ K + 1 = L, E ↔ V + 1 = W, N ↔ M + 1 = N, C ↔ X + 1 = Y, I ↔ R + 1 = S, L ↔ O + 1 = P ⇒ LWNYS</p>

Q:2 The correct answer is **option 1 i.e. 192126224192111134618201820**.

The logic used here is:

DIPLOMAT is coded as 3581015171113141612142621921

D is replaced by the previous and the next position value.

D = 3, 5

I = 8, 10

P = 15, 17

L = 11, 13

O = 14, 16

M = 12, 14

A = 26, 2

T = 19, 21

Similarly,

Code for the word TACTLESS:

T = 19 and 21

A = 26 and 2

C = 2 and 4

T = 19 and 21

L = 11 and 13

E = 4 and 6

S = 18 and 20

S = 18 and 20

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

Q:3 The correct answer is **Option B i.e. ELBAC**

The pattern is as follows:

The position of 1st and 5th and 2nd and 4th are interchanged, and the position of the middle letter is kept the same.

SHARE → ERAHS

MOVIE → EIVOM

Similarly,

CABLE → **ELBAC**

Q:4 The correct answer is **Option 1 i.e. 62**

Understanding

Logic:

If the number of letters in the word is even, then code is formed by subtracting 2 from the square of this number.

If the number of letters in word is odd, then code is formed by adding 3 to the cube of this number.

PICTURE is coded as 346 - This word has 7 letters: $7^3 + 3 = 346$

CAMERA is coded as 34 - This word has 6 letters: $6^2 - 2 = 34$

HIGH is coded as 14: This word has 4 letters - $4^2 - 2 = 14$

Similarly,

TRAINING has 8 letters: $8^2 - 2 = 62$

Q:5 The correct answer is **Option 3 i.e. 20**



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The logic used here is:

COLOURS is coded as 14

Number of letters $\times 2 =$ Code

$7 \times 2 = 14$

Similarly,

Code for the word MEDITATION:

$10 \times 2 = 20$

Hence, **20** is the correct answer.

Q:6 The correct answer is **Option 3** i.e. **HSHQ**

Code:

Vowel - 1

Consonant + 1

REAR:

$R + 1 = S$

$E - 1 = D$

$A - 1 = Z$

$R + 1 = S$

Similarly,

GRIP:

$G + 1 = H$

$R + 1 = S$

$I - 1 = H$

$P + 1 = Q$

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

Q:7 The correct answer is **Option 2** i.e. **524**

Code for each word = Number of letters in the word

They = 4

are = 3

playing = 6

Similarly,

Light = 5

is = 2

Blue = 4

Hence, the correct answer is **524**

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

Code for word

consonant = opposite letter of consonant

vowel = vowel - 1

CLEAR:

$C \Leftrightarrow X$

$L \Leftrightarrow O$

$E - 1 = D$

$A - 1 = Z$

$R \Leftrightarrow I$

Similarly,

GIRLS:

$G \Leftrightarrow T$

$I - 1 = H$

$R \Leftrightarrow I$

$L \Leftrightarrow O$

$S \Leftrightarrow H$

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

Q:9 The correct answer is **Option 3** i.e. **15-23-21-7-23-15**

Understanding

From the above alphabet position, we see that

S	C	I	E	N	C	E
19	3	9	5	14	3	5

Here, the pattern is followed that 2 is added to each alphabet position.

$(19+2) (3+2) (9+2) (5+2) (14+2) (3+2) (5+2)$

21-5-11-7-16-5-7

In the same way, MUSEUM is written as **15-23-21-7-23-15**

Hence, the correct answer is option 3.

Q:10 The correct answer is **Option 4** i.e. **I4T5IW3MT**

Understanding

It is given that COLLUDE is written as X2001W4:

A E I O U = 5 4 3 2 1 (Vowel position)

The pattern that follows here is that the consonant represents the opposite alphabet and the vowel represents the number position which is given above.

So, REGARDING is coded as **I4T5IW3MT**.

Hence, the correct answer is **I4T5IW3MT**.