

- B 27
- C 36
- D 45

Answer: B

**Question 24**

Let  $g(x) + g\left(\frac{1}{x}\right) = 1 + 3x$ . Find the value of  $g(3)$ .

- A -4
- B  $-\frac{1}{2}$
- C  $\frac{1}{2}$
- D 3

Answer: E

**Question 25**

Find the sum of the following series (with infinite terms):

$$2\sqrt{2}, \sqrt[4]{3}, \frac{4\sqrt{2}}{3}, \dots$$

- A  $2\sqrt{3}(\sqrt{3} + \sqrt{2})$
- B  $2\sqrt{3}(\sqrt{3} - \sqrt{2})$
- C  $2\sqrt{6}(\sqrt{3} + \sqrt{2})$
- D  $2\sqrt{6}(\sqrt{3} - \sqrt{2})$

Answer: C

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### Logical Reasoning

**Instructions**

For the following questions answer them individually

**Question 26**

In a certain language

ABCD is coded as CABF

FGHI is coded as HFGK

UVWkX is coded as WUVZ

How is KLMN coded?

- A KLMP
- B MKLP
- C MNOP
- D MNPO

Answer: B

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### Question 27

If A # B is the mother of A

A \$ B means A is the father of B

A % B means A is sister of B

A \* B means A is the son of B

A @ B means A is brother of B and

A ! B means A is the daughter of B

In the expression P\$Q#R@S, how is R related to P?

- A Grandson
- B Great Grandson
- C Son
- D Daughter

Answer: A

### Question 28

Find the next character sequence in the series

FAC, ICF, LEI, OGL, RIO....

- A UNR
- B ULS
- C TKR
- D UKR

Answer: B

### Question 29

The question below consists of a main statement followed by four options. Select the one that logically follows the main statement

The slip fielder can catch a ball, only if the batsman is brought to the front foot and he tries to hit the ball

- A The batsman is brought to the front foot. hence the slip fielder cannot catch the ball
- B The batsman did not try to hit the ball. hence the slip fielder cannot catch the ball
- C The fielder caught the ball, means that the batsman was brought to the front foot and he did not try to hit the ball
- D All the above

Answer: B

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### Question 30

In the following questions find out the alternative which will replace the question mark.

CHICKEN : CHICK :: PIG: ?

- A Lamb
- B Piglet
- C Foal
- D Cub

Answer: B

#### Question 31

Find the next number in the series  
210, 195, 175, 150, 120, ..... ?

- A 85
- B 95
- C 80
- D 100

Answer: A

#### Question 32

P, Q, R, S, T, U, V, W are sitting in a row facing north

- (A) P is fourth to right of T
  - (B) W is fourth to the left of S
  - (C) R and U, which are both at the ends are neighbours of Q and T respectively
  - (D) W is immediate left of P and P is neighbour of Q
- Who are the immediate neighbours of W?

- A Q and V
- B V and R
- C V and P
- D U and P

Answer: C

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#### Question 33

P, Q, R, S, T, U, V and W are sitting round the circle and are facing the centre: P is second to the right of T who is the neighbour of R and V. S is not the neighbour of P. V is the neighbour of U. Q is not between S and W. W is not between U and S. U is the right of S.

Who is sitting adjacent to V?

- A U and T
- B U and R
- C T and P
- D W and P

Answer: A

**Question 34**

Three out of four are alike in a particular pattern and hence form a group. Find which does not belong to the group  
2835, 5671, 8505, 11344

- A 8505
- B 5671
- C 11344
- D 2835

Answer: C

**Question 35**

Below two pairs of numbers are given. But one number in the second pair is missing. Identify the relationship between the two numbers in first pair and find the second number of the second pair such that it follows the same relationship as that of first pair.  
7 : 77 :: 14 : .....

- A 196
- B 252
- C 98
- D 232

Answer: B

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**Question 36**

How many pages of the book Ram read on Monday. The book was read completely by Tuesday.

Statement I: Ram read last 30 pages of the book on Tuesday

Statement II: The book has 600 pages out of which half were read by Ram before Monday

In light of the above statements, choose the most appropriate answer from the options given below

- A Data in Statement I alone is sufficient to find the answer
- B Data in Statement II is sufficient enough to find answer
- C Data in Statements I and II together is not sufficient to find the answer
- D Data in both the Statements is sufficient to find the answer

Answer: B

**Question 37**

Find the missing Letter / number  
B2CD, DESF..... H5Id, J6KL

- A D3GH
- B G3HI
- C FGH4

D FG4H

Answer: C

**Question 38**

In a certain code language, if the word RESERVE is coded as GXTGUGT, then how is the word PRESENT coded in that language

A VPGUGTR

B VPUGGTR

C VPGUTGR

D RGTUGPV

Answer: A

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**Question 39**

In a certain code language, if REPTILE is coded as 49 and SNAKE is coded as 25, then how

A 64

B 36

C 81

D 100

Answer: C

**Question 40**

A number-arrangement machine, when given an input string of numbers, arranges them following a particular pattern. The following is the illustration of an input and its arrangement.

Input:	3	4	9	7	6	11
Step I	9	16	81	49	36	121
Step II	12	20	90	56	42	132
Step III	17	25	95	61	47	137
Step IV	15	23	93	59	45	135

As per the rules followed in the above steps, find the appropriate answer  
If 159 is one of the numbers in Step IV, which of the following can be input number?

A 13

B 10

C 12

D 22

Answer: C

**Question 41**

Find the next number in the series

7, 9, 14, 27, 81, ?

- A 62
- B 84
- C 65
- D 56

Answer: D

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#### Question 42

The question below consists of a main statement followed by four options. Select the one that logically follows the main statement  
**If I drive a car, then it is a BMW or a Skoda.**

- A I am driving a car. means that it is a BMW or a Skoda
- B The car is neither BMW noraSkoda. hence I do not drive a car.
- C I drive a car but it is not a Skoda, meansit is a BMW
- D All the above

Answer: D

#### Question 43

If in a certain language, ITNIETAM is the code for INTIMATE, which word has the code  
**TREVNIETARBI?**

- A INVRETIBRATE
- B INVERTIBRATE
- C INVERTIBRETA
- D INVERTIBARTE

Answer: B

#### Question 44

A number -arrangement machine, when given an input string of numbers, arranges them following a particular pattern. The following is the illustration of an input and its arrangement.

Input:	3	4	9	7	6	11
Step I	9	16	81	49	36	121
Step II	12	20	90	56	42	132
Step III	17	25	95	61	47	137
Step IV	15	23	93	59	45	135

What is the input if the following is the arrangement of Step IV?  
**9, 75, 113, 213, 33, 5**

- A 2, 10, 8, 14, 5, 3
- B 2, 10, 8, 13, 5, 1
- C 2, 8, 10, 14, 5, 1

D 3, 8, 9, 13, 5, 1

Answer: C

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### Question 45

Among the six persons P, Q, R, S, T, U, each is having different weights

P is heavier than 3 persons. R is lighter than T

S is lighter than only Q

is not the lightest

Who is lighter and heavier than P respectively?

A T and S

B R and S

C S and R

D T and Q

Answer: A

### Question 46

The question below consists of a main statement followed by four options. Select the one that logically follows the main statement.

"Whenever I go shopping, I end up spending more"

A I went for shopping means I end up spending less

B I did not go for shopping: implies I did not spend more

C I did not spend more, means I did not go for shopping

D Both (1) and (2)

Answer: C

### Question 47

In a certain code language BCG is coded as EFJ. How is the word FALSE coded?

A IJKLM

B JEPWI

C IDOVH

D IDOWJ

Answer: C

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**Question 48**

The question below consists of a main statement followed by two statements. Select the one that logically follows the main statement

"Private property. trespassers will be prosecuted" - A notice on a plot of land. Given below are two statements

Statement I: The passer-by may read the notice and may not trespass.

Statement II: The people are scared of prosecution

In light of the above statements, choose the most appropriate answer from the options given below:

- A Only Statement I is implicit
- B Only Statement II is implicit
- C Both Statements I and II are implicit
- D Neither I nor II are implicit

**Answer: C**

**Question 49**

The question below consists of a main statement followed by four options. Select the one that logically follows the main statement  
Unless I score well, I will not get selected

- A I was not selected, means I did not score well
- B I am selected, implies I scored well
- C I did not score well. means I will not be selected
- D Both (2) and (3)

**Answer: D**

**Question 50**

A number -arrangement machine, when given an input string of numbers, arranges them following a particular pattern. The following is the illustration of an input and its arrangement.

Input:	3	4	9	7	6	11
Step I	9	16	81	49	36	121
Step II	12	20	90	56	42	132
Step III	17	25	95	61	47	137
Step IV	15	23	93	59	45	135

As per the rules followed in the above steps, find the appropriate answer  
Which is the fifth number from the left end in step III of the following input?  
6, 2, 14, 17, 8, 13

- A 64
- B 72
- C 75
- D 7

**Answer: D**