

Ssc Gd Constable prelims Previous Year Question Paper Overview

Here, you can solve all the questions asked in Ssc Gd Constable prelims Previous Year Question Paper on 2021-11-16 in the Afternoon Hindi exam. The detailed solutions are also provided for every previous year question and some of these questions can be asked again in your Ssc Gd Constable prelims exam. There are 100 questions in the exam and 90 minutes are provided for the Ssc Gd Constable prelims exam. The Cutoff of the exam was 85 marks hence you should try to score at least 95 marks.

Ssc Gd Constable prelims Previous Year Question Paper : Questions and Solutions

Question 1 :

Four number triads have been given, out of which three are alike in some manner and one is different. Select the number triad that is different

Difficulty : Moderate

Average Time : 45 Seconds

Options :

1. (46, 65, 82)
2. (54, 73, 90)
3. (21, 40, 57)
4. (39, 48, 75)

Solution :

The correct answer is **option 4** i.e. **(39, 48, 75)**.

The logic used here is:

First number + 19 = 2nd number

Second number + 17 = 3rd number

Option1: (46, 65, 82)

46 + 19 = 65

65 + 17 = 82



This follows the logic.

Option 2: (54, 73, 90)

$$54 + 19 = 73$$

$$73 + 17 = 90$$

This follows the logic.

Option 3: (21, 40, 57)

$$21 + 19 = 40$$

$$40 + 17 = 57$$

This follows the logic.

Option 4: (39, 48, 75)

$$39 + 19 = 58$$

$$58 + 17 = 75$$

This does not follow the logic.

Hence, **option 4** is the odd one out.

Question 2 :

Select the correct option that indicates the arrangement of the given words in the order in which they appear in an English dictionary. 1. Dermatitis 2. Desistance 3. Derogation 4. Descendant 5. Dereliction

Difficulty : Moderate

Average Time : 61 Seconds

Options :

1. 5, 4, 1, 3, 2

2. 5, 1, 3, 2, 4

3. 5, 2, 1, 3, 4

4. 5, 1, 3, 4, 2

Solution :

The correct answer is **option 3** i.e. **5, 1, 3, 4, 2**.

In this question, you need to arrange the words as they would appear in the English dictionary.



1. Dereliction
2. Dermatitis
3. Derogation
4. Descendant
5. Desistance

Question 3 :

Select the dice that can be formed by folding the given sheet along the lines.

Difficulty : Moderate

Average Time : 40 Seconds

Options :

1. Only B and D
2. All A, B, C, and D
3. Only B
4. Only A and C

Solution :

The correct answer is **option 2** i.e. **All A, B, C, and D**

After folding the sheet along the lines;

- 1 is opposite to 5.
- 3 is opposite to 6.
- 2 is opposite to 4.

In all four cubes, none of the opposite pairs are adjacent pairs to each other, thus all four cubes can be formed.

Question 4 :

The ratio of the ages of A, B and C, 5 years ago, was 4 : 5 : 7. The sum of their present ages is 135 years. What will be the sum of the ages (in years) of B and C, 3 years from now?

Difficulty : Moderate

Average Time : 55 Seconds

Options :

1. 100

96

3. 106

4. 112

Solution :

The correct answer is **Option 3** i.e. **106**.

The ratio of the ages of A, B and C, 5 years ago, was 4 : 5 : 7.

The sum of their present ages is 135 years.

Total = Average \times Number of entities

Let the common ratio be Q.

So, 5 years ago, the ages of A, B, and C are 4Q, 5Q, and 7Q respectively.

Now, their present ages are (4Q + 5), (5Q + 5), and (7Q + 5) respectively.

According to the question -

$$(4Q + 5) + (5Q + 5) + (7Q + 5) = 135$$

$$16Q + 15 = 135$$

$$16Q = 135 - 15$$

$$16Q = 120$$

$$Q = 7.5$$

The present age of B = $(5 \times 7.5 + 5) = 42.5$ years

The present age of C = $(7 \times 7.5 + 5) = 57.5$ years

Now, the sum of the ages of B and C, 3 years from now = $(42.5 + 3) + (57.5 + 3) = 106$ years

Question 5 :

Three numbers are in the ratio 4 : 9 : 13 and their LCM is 2340. Their HCF is:

Difficulty : Moderate**Average Time : 65 Seconds****Options :**

1. 7

2. 3

4

4. 5

Solution :

The correct answer is **Option 4** i.e. **5**

Three numbers are in the ratio 4 : 9 : 13 and their LCM is 2340.

LCM is the smallest common multiple of two or more numbers.

HCF is the largest number or quantity that is a factor of each member of a group of numbers.

Let the HCF of the numbers be H.

So, the three numbers are 4H, 9H, and 13H.

According to the question -

$$\text{LCM}(4H, 9H, 13H) = 2340$$

$$(4 \times 9 \times 13)H = 2340$$

$$468H = 2340$$

$$H = 2340/468$$

$$H = 5$$

Question 6 :

A man sells two articles at Rs 9,180 each. He gains 8% on one article and loses 15% on the other. His overall profit or loss is:

Difficulty : Moderate

Average Time : 58 Seconds

Options :

1. Profit Rs 840
2. Loss Rs 840
3. Loss Rs 940
4. Profit Rs 940

Solution :

The correct answer is **Option 3** i.e. **Loss Rs 940**.

A man sells two articles at Rs. 9,180 each.

He gains 8% on one article and loses 15% on the other.

Selling Price = Cost Price - Cost Price \times Loss%

Selling Price = Cost Price + Cost Price \times Gain%

Loss = Cost Price - Selling Price

Let the cost price of the first and second articles be P and Q.

According to the question -

$$P + P \times 8\% = 9180$$

$$P + 0.08P = 9180$$

$$1.08P = 9180$$

$$P = 9180/1.08$$

$$P = 8500$$

According to the question -

$$Q - Q \times 15\% = 9180$$

$$Q - 0.15Q = 9180$$

$$0.85Q = 9180$$

$$Q = 9180/0.85$$

$$Q = 10800$$

Total cost price = 10800 + 8500 = Rs. 19300

Total selling price = 9180 \times 2 = Rs. 18360

Now, the overall loss = 19300 - 18360 = Rs. 940

Question 7 :

The price of a car increased by 5% while its sales decreased by 16%. What is the percentage change in the total revenue?

Difficulty : Moderate

Average Time : 73 Seconds

Options :



5% decrease

2. 9% increase

3. 9% decrease

4. 5% increase

Solution :

The correct answer is **Option 4** i.e. **5% increase**.

The price of a car increased by 5% while its sales decreased by 16%.

Successive increment of A% and B% results in = $(A + B + AB/100)\%$

Here, we're taking a decrease by 16% as a (-16%) increase.

According to the question,

Now, the percentage change in the total revenue = $[5 - 16 + 5(-16)/100]\%$

= $[5 - 16 - 5(16)/100]\%$

= $(-11 - 0.8)\%$

= -11.8%

Question 8 :

If the compound interest on a certain sum of money for two years at 9% p.a. is Rs 3,762, then the sum is:

Difficulty : Moderate

Average Time : 52 Seconds

Options :

1. Rs 20,000

2. Rs 18,000

3. Rs 25,000

4. Rs 24,000

Solution :

The correct answer is **Option 1** i.e. **Rs. 20000**

The compound interest on a certain sum of money for two years at 9% p.a. is Rs. 3,762.

In the case of the compound interest, Amount = $P(1 + R/100)^N$



$CI = P(1 + R/100)^N - P$ (where P = Principal, R = Rate of interest per year, N = Time in years)

Let the sum be Rs. P.

According to the question -

$$P(1 + 9/100)^2 - P = 3762$$

$$P(1.092) - P = 3762$$

$$1.1881P - P = 3762$$

$$0.1881P = 3762$$

$$P = 3762/0.1881$$

$$P = 20,000$$

Question 9 :

The average of 4, 6, 8, 12 and x is 7 and the average of x, 9, 13, 15 and y is 9. What is the value of $2x - 3y$?

Difficulty : Moderate

Average Time : 60 Seconds

Options :

1. 5
2. 3
3. 19
4. 1

Solution :

The correct answer is **Option 4** i.e. 1

The average of 4, 6, 8, 12, and x is 7 and the average of x, 9, 13, 15, and y is 9.

Total = Average \times Number of entities

There are 5 numbers in the series 4, 6, 8, 12, x.

According to the question -

$$4 + 6 + 8 + 12 + x = 7 \times 5$$

$$30 + x = 35$$

$$x = 35 - 30$$

$$x = 5$$

There are 5 numbers in the series $x, 9, 13, 15, y$.

According to the question -

$$x + 9 + 13 + 15 + y = 9(5)$$

$$5 + 9 + 13 + 15 + y = 45 \quad (\hat{\mu} x = 5)$$

$$42 + y = 45$$

$$y = 45 - 42$$

$$y = 3$$

$$(2x - 3y) = (2 \times 5 - 3 \times 3) = 10 - 9 = 1$$

Question 10 :

Vignesh spends 42% of his monthly salary on food, 16% on house rent, 11% on entertained and 7% on conveyance. But due to some family function, he has to borrow Rs 12,000 from a money lender to meet the expenses of Rs 18,000. What is his monthly salary?

Difficulty : Moderate

Average Time : 64 Seconds

Options :

1. Rs 20,000
2. Rs 24,000
3. Rs 30,000
4. Rs 25,000

Solution :

The correct answer is **Option 4** i.e. **Rs. 25000**.

Vignesh spends 42% of his monthly salary on food, 16% on house rent, 11% on entertainment, and 7% on conveyance.

He has to borrow Rs. 12,000 from a money lender to meet the expenses of Rs. 18,000.

Let the monthly salary of Vignesh be 100%.

Percentage of salary left after all expenditure = $100\% - (42 + 16 + 11 + 7)\% = 24\%$

Before borrowing he had left with = $18000 - 12000 = \text{Rs. } 6000$

24% of his salary = Rs. 6000



100% of his salary = $6000(24)/100 = \text{Rs. } 25000$

Question 11 :

The ratio of two numbers is 9 : 5. If 8 is added to the largest number and 4 is subtracted from the smaller number, the greater number becomes twice the smaller number. The larger number is:

Difficulty : Moderate**Average Time : 57 Seconds****Options :**

1. 110
2. 104
3. 144
4. 114

Solution :

The correct answer is **Option 4** i.e. **114**.

The ratio of the two numbers is 9 : 5

If 8 is added to the larger number and 4 is subtracted from the smaller number, the greater number becomes twice the smaller number.

Let the numbers 9H and 5H respectively.

According to the question -

$$(9H + 8) = 2 \times (5H - 4)$$

$$9H + 8 = 10H - 8$$

$$10H - 9H = 8 + 8$$

$$H = 16$$

$$\text{The larger number} = 16(9) = 144$$

Question 12 :

Solve the following: $523 + 523 \times 523 \div 523$

Difficulty : Moderate**Average Time : 48 Seconds****Options :**

1. 1005



1235

3. 1542

4. 1046

Solution :

The correct answer is **Option 4** i.e. **1046**.

$$523 + 523 \times 523 \div 523$$

$$= 523 + 523 \times 1$$

$$= 523 + 523$$

$$= 1046$$

Question 13 :

A shopkeeper has some toys. He sells two-third of the toys at a profit of 35% and the remaining toys at 10% loss. What is his overall percentage of profit?

Difficulty : Moderate

Average Time : 37 Seconds

Options :

1. 16%

2. 20%

3. 18%

4. 25%

Solution :

The correct answer is **Option 2** i.e. **20%**.

A shopkeeper has some toys. He sells two-thirds of the toys at a profit of 35% and the remaining toys at a 10% loss.

$$\text{Selling Price} = \text{Cost Price} - \text{Cost Price} \times \text{Loss\%}$$

$$\text{Selling Price} = \text{Cost Price} + \text{Cost Price} \times \text{Gain\%}$$

$$\text{Profit\%} = [(\text{Selling Price} - \text{Cost Price})/\text{Cost Price}] \times 100$$

Let there be 3x the number of toys at the shop.

$$\text{Number of toys sold at 35\% profit} = 3x \times 2/3 = 2x$$

Number of toys sold at 10% loss = $3x - 2x = x$

Let the cost price of each toy be y .

The total cost price of all toys = $3xy$

Selling price of $2x$ number of toys = $2x(y + y \times 35\%) = 2x(y + 0.35y) = 2x \times 1.35y = 2.7xy$

Selling price of x number of toys = $x(y - y \times 10\%) = x(y + 0.1y) = x \times 0.9y = 0.9xy$

Overall profit% = $\frac{[(2.7xy + 0.9xy) - 3xy]}{xy} \times 100\% = 0.6(100)/3 = 20\%$

Question 14 :

The sides of a triangular park are 96m, 110m and 146m. Its area is equal to the area of a field in the shape of a rhombus, one of whose diagonals is 60m. the length (in m) of its other diagonal is:

Difficulty : Moderate

Average Time : 87 Seconds

Options :

1. 176
2. 132
3. 218
4. 88

Solution :

The correct answer is **Option 1** i.e. **176**.

The sides of a triangular park are 96 m, 110 m and 146 m.

Its area is equal to the area of a field in the shape of a rhombus, one of whose diagonals is 60 m.

Semi perimeter of a triangle, $S = (A + B + C)/2$ (A, B, C is the length of three sides of the triangle)

Area of a triangle = $S(S - A)(S - B)(S - C)$

S = Semi-perimeter of the triangle and A, B, C is the length of three sides of the triangle.

Area of a rhombus = Product of the length of the two diagonals $\div 2$

Semi perimeter of the triangular park = $(96 + 110 + 146)/2 = 352/2 = 176$ m

Area of the triangular park = $176(176 - 96)(176 - 110)(176 - 146) = 176(80)(66)(30) = 27878400 = 5280 \text{ m}^2$

Let the length of the other diagonal of the rhombus be x m.



According to the concept -

$$(60 \times x)/2 = 5280$$

$$x = (5280 \times 2)/60$$

$$x = 176$$

Question 15 :

What is the third proportional to 9 and 36?

Difficulty : Moderate

Average Time : 75 Seconds

Options :

1. 72
2. 288
3. 144
4. 122

Solution :

The correct answer is **Option 3** i.e. **144**.

9 and 36 are the first and middle proportions respectively.

If $A : B :: C : D$ then, $(A \times D) = (B \times C)$

Let the third proportion be x .

So, the proportion becomes $9 : 36 :: 36 : x$

According to the concept -

$$9 \times x = 36 \times 36$$

$$x = 1296/9$$

$$x = 144$$

Question 16 :

A discount of 20% on the price of an article is the same as a discount of 25% on the price of another article. The prices of the two articles will be, respectively:

Difficulty : Moderate

Average Time : 51 Seconds

Options :

Rs 40 and Rs 50

2. Rs 60 and Rs 50

3. Rs 50 and Rs 40

4. Rs 50 and Rs 60

Solution :

The correct answer is **Option 3** i.e. **Rs 50 and Rs 40**.

A discount of 20% on the price of an article is the same as a discount of 25% on the price of another article.

Discount = Marked Price \times Discount%

Let the price of the first and second articles be x and y respectively.

According to the question -

$$x \times 20\% = y \times 25\%$$

$$0.2x = 0.25y$$

$$x/y = 0.25/0.2$$

$$x/y = 5/4$$

$$x : y = 5 : 4$$

Only in Option 3) the ratio of the price of the articles are in the ratio of 50 : 40 i.e. 5 : 4.

Thus, the price of two articles would be Rs 50 and Rs 40

Question 17 :

Two trains start from places A and B, respectively, and travel towards each other at the speeds of 60 km/h and 50 km/h, respectively. By the time they meet, the faster train has travelled 110km more than the slower train. What is the distance between A and B?

Difficulty : Moderate

Average Time : 73 Seconds

Options :

1. 1100 km

2. 1200 km

3. 1150 km

1210 km

Solution :

The correct answer is **Option 4** i.e. **1210 km**

Two trains start from stations A and B towards each other at the speed of 120 km/h and 100 km/h respectively.

Speed = Distance/ Time

Distance traveled By train B = $D_B = x$ km

It is given that train A traveled 240 km more than train B.

So the distance traveled By train A = $D_A = (x + 110)$ km

Let the time taken by train A is T_A and time taken by train B is T_B

When these train meets Time taken by train A will be equal to the time taken by train B.

$T_A = T_B$

$D_A/60 = D_B/50$

$(x + 110)/60 = x/50$

$50x + 5500 = 60x$

$10x = 5500$ km

$x = 550$ km

The total distance between A and B = $2x + 110 = (2 \times 550 + 110)$ km = 1210 km

Question 18 :

After giving a discount of 20% on the marked price of an article, it is sold for Rs 120. Had the discount not been given, then the profit would have been 20%. What is the cost price of the article?

Difficulty : Moderate

Average Time : 81 Seconds

Options :

1. Rs 120
2. Rs 130
3. Rs 100
4. Rs 125

Solution :

The correct answer is **Option 4** i.e. **Rs. 125**

After giving a discount of 20% on the marked price of an article, it is sold for Rs. 120.

Had the discount not been given, the profit would have been 20%.

Selling price = Marked Price - Marked Price \times Discount%

Selling Price = Cost Price + Cost Price \times Gain%

Let the marked price of the article be x.

According to the question -

$$x - x \times 20\% = 120$$

$$x - 0.2x = 120$$

$$0.8x = 120$$

$$x = 120/0.8$$

$$x = 150$$

Let the cost price be y.

According to the question -

$$y + y \times 20\% = 150$$

$$y + 0.2y = 150$$

$$1.2y = 150$$

$$y = 150/1.2$$

$$y = 125$$

Question 19 :

Four letter clusters have been given, out of which three are alike in some manner and one is different. Select the letter cluster that is different.

Difficulty : Moderate

Average Time : 69 Seconds

Options :

1. FDB



USP

3. JHF

4. OMK

Solution :

The correct answer is **option 2** i.e. **USP**.

The logic used here is:

1st letter - 2 = 2nd letter

2nd letter - 2 = 3rd letter

Option 1: FDB

F - 2 = D

D - 2 = B

This follows the logic.

Option 2: USP

U - 2 = S

S - 2 = Q

This does not follow the logic.

Hence, **option 2** is the odd one out.

Question 20 :

In a certain code language, 'MANGO' is written as 'QERKS' and 'APPLE' is written as 'ETTPI'. How will 'GUAVA' be written in that language?

Difficulty : Moderate

Average Time : 55 Seconds

Options :

1. KYFXF

2. KYGZE

3. KYEZE

4. KXEZE



Solution :

The correct answer is **option 3** i.e. **KYEZE**.

The logic used here is:

'MANGO' is written as 'QERKS'

$$M + 4 = Q$$

$$A + 4 = E$$

$$N + 4 = R$$

$$G + 4 = K$$

$$O + 4 = S$$

'APPLE' is written as 'ETTP'

$$A + 4 = E$$

$$P + 4 = T$$

$$P + 4 = T$$

$$L + 4 = P$$

$$E + 4 = I$$

Similarly,

Code for the word GUAVA:

$$G + 4 = K$$

$$U + 4 = Y$$

$$A + 4 = E$$

$$V + 4 = Z$$

$$A + 4 = E$$

Hence, **option 3** is the correct answer.

Question 21 :

Select the combination of letters that when sequentially placed in the blanks of the given series will complete the series. A

__ B __ A B _ C A _ B B C



Difficulty : Moderate

Average Time : 63 Seconds

Options :

1. B, C, A, A, A, B
2. B, A, B, A, C, B
3. A, B, C, A, B, A
4. B, B, C, C, A, B

Solution :

The correct answer is **option 3** i.e. **A, B, C, A, B, A**.

The sequence is – A, B, C, A, B, A

Given sequence: A _ _ B _ _ A B _ C A _ B B C

Option 1: B, C, A, A, A, B

A B C B A A A B A C A B B B C

Option 1 does not form a particular pattern.

Option 2: B, A, B, A, C, B

A B A B B A A B C C A B B B C

Option 2 does not form a particular pattern.

Option 3: A, B, C, A, B, A

A A B B C / A A B B C / A A B B C

Option 3 forms a particular pattern.

Hence, **option 3** is the correct answer.

Question 22 :

O, P, Q, R, S, T, and U are facing north in a row. U is sitting to the immediate right of T. Q is sitting in between R and O. P is on the extreme right, sitting to the immediate right of O. S is seated to the immediate left of R. Who is sitting in the middle of the row?

Difficulty : Moderate

Average Time : 97 Seconds

Options :

S

2. R

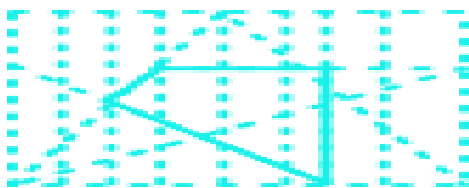
3. T

4. Q

Solution :

The correct answer is **option 2** i.e. **R**.

According to the question, the arrangement is as follows:



From the above arrangement, R is sitting in the middle of the row.

Hence, **option 2** is the correct answer.

Question 23 :

Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements. Statements: Some cats are animals. All animals are plants. Conclusions: I. All cats are plants. II. Some plants are cats. III. Some plants are animals. IV. All animals are cats.

Difficulty : Moderate

Average Time : 62 Seconds

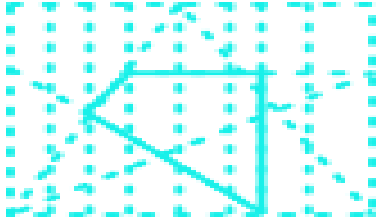
Options :

1. Only conclusion I follows
2. All the conclusions follow
3. Only conclusions I, II and III follow
4. Only conclusions II and III follow

Solution :

The correct answer is **option 1** i.e. **Only conclusions II and III follow**.

The least possible Venn Diagram for the given statements is drawn below:

**Conclusions:**

I. All cats are plants **False** (It is possible, but no definite conclusion can be drawn).

II. Some plants are cats **True** (As all animals are plants and some cats are animals, we can conclude that some plants are cats.)

III. Some plants are animals **True** (As all animals are plants, so some plants are animals is true.)

IV. All animals are cats **False** (It is possible, but no definite conclusion can be drawn).

Hence, **Only conclusions II and III follow.**

Question 24 :

Six friends are sitting in a straight line. E is 4th from the right. E is between B and D. A is adjacent to B. D is adjacent to C. D is between E and C. F is adjacent to C. Who is sitting between F and D?

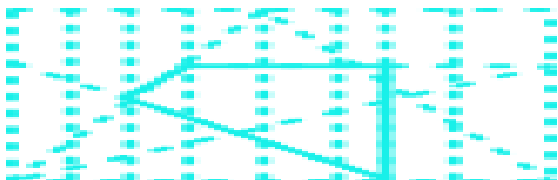
Difficulty : Moderate**Average Time : 89 Seconds****Options :**

1. A
2. E
3. C
4. B

Solution :

The correct answer is **option 3** i.e. **C**.

According to the question, the arrangement is as follows:



From the above arrangement, C is sitting between F and D.



Hence, **option 3** is the correct answer.

Question 25 :

Select the number from among the given options that can replace the question mark (?) in the following series. 153, 149, 143, 135, ?

Difficulty : Moderate

Average Time : 47 Seconds

Options :

1. 131
2. 125
3. 129
4. 127

Solution :

The correct answer is **option 2** i.e. **125**.

Given series: 153, 149, 143, 135, ?

The series follows this pattern:

$$153 - 4 = 149$$

$$149 - 6 = 143$$

$$143 - 8 = 135$$

$$135 - 10 = 125$$

So, the next term in the series is **125**.

Question 26 :

If the diagonal of a square is increased by 4 cm, its area increases by 56 cm². Find the ratio of the new area of the square to the initial area of the square.

Difficulty : Moderate

Average Time : 45 Seconds

Options :

1. 16 : 9
2. 13 : 8
3. 18 : 11



12 : 5

Solution :

The correct answer is **Option 1** i.e. **16 : 9**.

Let the side of the square be a cm, then initial area of the square = a^2

Initial diagonal of the square = $a\sqrt{2}$ cm

Now we can see that area = $(\text{diagonal}/\sqrt{2})^2$

When diagonal increased by 4, i.e. $a\sqrt{2} + 4$, area increases by 56

New Area = $((a\sqrt{2} + 4)/\sqrt{2})^2$

$$a^2 + 56 = (a + 2\sqrt{2})^2$$

$$a^2 + 56 = a^2 + 8 + 42a$$

$$42a = 48$$

$$a = 12/7$$

Now Initial Area = $a^2 = 144/49$ cm²

New area = $144/49 + 56 = 2880/49$ cm²

Required ratio = $2880 : 144 = 20 : 1$

Question 27 :

Select the letter cluster from among the given options that can replace the question mark (?) in the following series. IOM, NTR, SYW, ?

Difficulty : Moderate

Average Time : 70 Seconds

Options :

1. XDB
2. JPN
3. NSX
4. OTZ

Solution :

The correct answer is **option 1** i.e. **XDB**.

Given series: IOM, NTR, SYW, ?

The series follows this pattern:

IOM, NTR

I + 5 = N

O + 5 = T

M + 5 = R

Similarly;

SYW, ?

S + 5 = X

Y + 5 = D

W + 5 = B

So, the next term in the series is **XDB**

Question 28 :

In a certain code language, 'PHENYL' is coded as '9-11-17-8-5-13', and 'COLONY' is coded as '6-12-13-12-8-5'. How will 'COLONEL' be coded in that language?

Difficulty : Moderate

Average Time : 54 Seconds

Options :

1. 6-12-12-13-8-17-13
2. 6-12-13-12-8-17-13
3. 6-12-12-13-8-11-13
4. 6-17-12-13-8-13-11

Solution :

The correct answer is **option 2** i.e. **6-12-13-12-8-17-13**.

The logic used here is:

'PHENYL' is coded as '9-11-17-8-5-13'

P = 9



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H = 11

E = 17

N = 8

Y = 5

L = 13

'COLONY' is coded as '6-12-13-12-8-5'

C = 6

O = 12

L = 13

O = 12

N = 8

Y = 5

Similarly,

Code for the word COLONEL:

C = 6

O = 12

L = 13

O = 12

N = 8

E = 17

L = 13

Hence, **option 2** is the correct answer.

Question 29 :

'Experimenter' is related to 'Lab' in the same way as 'Chef' is related to '_____':

Difficulty : Moderate

Average Time : 70 Seconds

Options :

Cooking

2. Food

3. Dishes

4. Kitchen

Solution :

The correct answer is **option 4** i.e. **Kitchen**.

The logic used here is:

'Experimenter' is related to 'Lab'

The experimenter conducts a variety of experiments in the Lab.

Similarly,

'Chef' is related to '_____'

A Chef does a variety of dishes in the Kitchen.

Hence, **option 4** is the correct answer.

Question 30 :

In a certain code language, GAME is written as TUZANOVW, and CAR is written as XYZAIJ. How will POST be written in that language?

Difficulty : Moderate

Average Time : 52 Seconds

Options :

1. OQNPRTSV

2. QRPQTUUV

3. KLLMHIGH

4. KLMNJKGH

Solution :

The correct answer is **option 3** i.e. **KLLMHIGH**.

The logic used here is:

GAME is written as TUZANOVW

Opposite of G = T

T + 1 = U

Opposite of A = Z

Z + 1 = A

Opposite of M = N

N + 1 = O

Opposite of E = V

V + 1 = W

Similarly,

Code for the word POST:

Opposite of P = K

K + 1 = L

Opposite of O = L

L + 1 = M

Opposite of S = G

G + 1 = H

Opposite of T = G

G + 1 = H

Hence, **option 3** is the correct answer.

Question 31 :

Select the option that is related to the third number in the same way as the second number is related to the first number.

20: 480:: 25:?

Difficulty : Moderate

Average Time : 66 Seconds

Options :

1. 700

2. 725



655

4. 625

Solution :

The correct answer is **option 2** i.e. **725**.

The logic used here is:

20: 480

$$20^2 + (20 \times 4) = 400 + 80 = 480$$

Similarly,

25:?

$$25^2 + (25 \times 4) = 625 + 100 = 725$$

Hence, **option 2** is the correct answer.

Question 32 :

Select the option that is related to the third term in the same way as the second term is related to the first term. ZYGOTE: ZYTOGE:: SEQUENCE:?

Difficulty : Moderate**Average Time : 45 Seconds****Options :**

1. USQNEEEC
2. USQENCEE
3. SUQNEEEC
4. USNQEEEC

Solution :

The correct answer is **option 4** i.e. **USNQEEEC**.

The logic used here is:

ZYGOTE: ZYTOGE

The letters of the word are arranged in the decreasing order of the English alphabetical series.

Similarly,

SEQUENCE:?

SEQUENCE = USQNEEEEC

Hence, **option 4** is the correct answer.

Question 33 :

Aditi is the daughter of Sanket. Vritti is the daughter of Ankit. Kriti is the mother of Mahi. Neeta is Sanket's wife. Neeta is the mother-in-law of Vritti's mother Kriti. Which of the following statements is NOT correct?

Difficulty : Moderate

Average Time : 52 Seconds

Options :

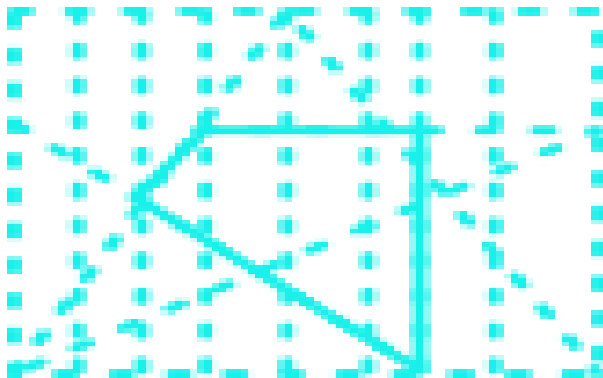
1. Ankit is the father of Mahi.
2. Vritti is the sister of Mahi.
3. Aditi is the daughter of Neeta
4. Kriti is the daughter of Sanket.

Solution :

The correct answer is **option 4** i.e. **Kriti is the daughter of Sanket.**

In the diagram shown;

Square shows males, the circle shows females, vertical lines show generations, a single horizontal line shows brothers or sisters, and double lines show a couple.



From the above figure, Kriti is the daughter of Sanket is not correct.

Hence, **option 4** is the correct answer.

Question 34 :

If 'A' denotes 'addition', 'B' denotes 'multiplication', 'C' denotes 'subtraction', and 'D' denotes 'division', then what will be



the value of the following expression? $100 \div (1 \times 4) + 2 \times (13 + 11) - 3 \times (17 - 12)$

Difficulty : Moderate

Average Time : 69 Seconds

Options :

1. 52

2. 58

3. 49

4. 60

Solution :

The correct answer is **option 2** i.e. **58**.

Given equation: $100 \div (1 \times 4) + 2 \times (13 + 11) - 3 \times (17 - 12)$

Given conditions: A +; B \times ; C -; D \div

After replacing the expression becomes:

$$= 100 \div (1 \times 4) + 2 \times (13 + 11) - 3 \times (17 - 12)$$

$$= 100 \div 4 + 2 \times 24 - 3 \times 5$$

$$= 25 + 2 \times 24 - 3 \times 5$$

$$= 58$$

Hence, **option 2** is the correct answer.

Question 35 :

Select the number from among the given options that can replace the question mark (?) in the following series. 5, 9, 18, 34,?, 95

Difficulty : Moderate

Average Time : 52 Seconds

Options :

1. 65

2. 69

3. 63

4. 59

**Solution :**

The correct answer is **option 4** i.e. **59**.

Given series: 5, 9, 18, 34, ?, 95

The series follows this pattern:

$$5 + 2^2 = 5 + 4 = 9$$

$$9 + 3^2 = 9 + 9 = 18$$

$$18 + 4^2 = 18 + 16 = 34$$

$$34 + 5^2 = 34 + 25 = 59$$

$$59 + 6^2 = 59 + 36 = 95$$

So, the missing term in the series is **59**.

Question 36 :

_____ launched the Fit India Mobile App at an event at Major Dhyan Chand National Stadium, New Delhi in August 2021.

Difficulty : Moderate

Average Time : 45 Seconds

Options :

1. Anurag Singh Thakur
2. Nisith Praman k
3. Ravi Mittal
4. Usha Sharma

Solution :

The correct answer is **Option 1** i.e. **Anurag Singh Thakur**.

- Sports Minister Anurag Thakur launched the Fit India mobile app, a personal trainer-cum-fitness guide, on the occasion of the second anniversary of the Fit India Movement here.
- He mentioned the app was a gift from the government to the people of India on the National Sports Day, which is celebrated to mark the birth anniversary of hockey legend Major Dhyan Chand.
- The event was also virtually attended by bronze medal-winning Tokyo Olympics hockey team captain Manpreet Singh.

Question 37 :

The acceleration of an object is said to be _____ when an object travels in a straight line and its velocity increases or decreases by equal amount in equal intervals of time.



Difficulty : Moderate

Average Time : 60 Seconds

Options :

1. negative
2. non-uniform
3. uniform
4. positive

Solution :

The correct answer is **Option 3** i.e. **uniform**.

- Uniform acceleration is a type of motion in which the velocity of an object changes by an equal amount in every equal time period.
- If an object travels in a straight line and its velocity increases or decreases by equal amounts in equal intervals of time, then the acceleration of the object is said to be uniform.

Question 38 :

Who was appointed as the State Election Commissioner of Jammu and Kashmir on October 30, 2020?

Difficulty : Moderate

Average Time : 49 Seconds

Options :

1. Kewal Kumar Sharma
2. V Bhaskaran
3. Shatrunjay Kumar Singh
4. Manoj Kumar

Solution :

The correct answer is **Option 1** i.e. **Kewal Kumar Sharma**.

- Kewal Kumar Sharma, who was serving as Adviser to Jammu and Kashmir Lt. Governor Manoj Sinha, was appointed State Election Commissioner (SEC).
- He has also served as Chief Secretary of Delhi and Goa.
- He also served as Secretary in the Ministry of Human Resource Development before his retirement.
- Sharma has also served as advisor to the administrator of Chandigarh.

Question 39 :

Which of the following animals breathes through its skin?

Difficulty : Moderate

Average Time : 51 Seconds

Options :

1. Frog
2. Rabbit
3. Peacock
4. Deer

Solution :

The correct answer is **Option 1** i.e. **Frog**.

- Frogs can also breathe through their skin.
- They need to keep their skin moist to be able to breathe through their skin, so if their skin dries out they are not able to absorb oxygen.
- The frog has three respiratory surfaces on its body that it uses to exchange gas with the surroundings: the skin, in the lungs and on the lining of the mouth.

Question 40 :

Which of the following is the most reactive metal?

Difficulty : Moderate

Average Time : 50 Seconds

Options :

1. Silver
2. Aluminium
3. Iron
4. Potassium

Solution :

The correct answer is **Option 4** i.e. **Potassium**.

- Potassium is found naturally in many foods and as a supplement.
- Its main role in the body is to help maintain normal levels of fluid inside our cells.
- Potassium is a mineral and an electrolyte, which conducts electrical impulses throughout the body.
- Potassium is one of the seven essential macrominerals. The human body needs potassium to support key processes.

**Question 41 :**

Which non-metal among the following is poly-atomic?

Difficulty : Moderate

Average Time : 49 Seconds

Options :

1. Sulphur
2. Argon
3. Oxygen
4. Helium

Solution :

The correct answer is **Option 1** i.e. **Sulphur**.

- Nonmetals, namely carbon, sulfur, phosphorus, and selenium, are polyatomic in nature
- Sulphur is one of the basic building blocks of life for both plants and animals.
- It is essential for protein formation, a chief constitute of all life forms.

Question 42 :

Who among the following was appointed as the first Municipal Commissioner of Bombay in 1865?

Difficulty : Moderate

Average Time : 44 Seconds

Options :

1. William Hunter
2. Charles Atkinson
3. H Fowler
4. Arthur Crawford

Solution :

The correct answer is **Option 4** i.e. **Arthur Crawford**.

- Arthur Travers Crawford was the first Municipal Commissioner of Bombay (1865-71), who was also a member of the Indian Civil Service in the Bombay Presidency.
- Crawford was an energetic town planner, ably supported by Governor Bartle Frere. He was keen to build an extensive market for the city and arranged for a competition of market designs.

Question 43 :

'La Liga' title is associated with _____.

Difficulty : Moderate

Average Time : 47 Seconds

Options :

1. tennis
2. football
3. cricket
4. sprinting

Solution :

The correct answer is **Option 2** i.e. **football**.

- La Liga is the top flight football division in Spain. It is one of the top five leagues in European football. Formed in 1929, La Liga has been the home to spectacular teams, players and matches over the years.
- La Liga has also seen itself being the most successfully represented league in European Competitions.
- Real Madrid, Barcelona and Athletic Club are the only three teams that have never been relegated from the top flight since the league began.

Question 44 :

In which of the following states is the Boramdeo temple located, where each year in the last week of March 'Boramdeo Mahotsav' is celebrated?

Difficulty : Moderate

Average Time : 56 Seconds

Options :

1. West Bengal
2. Karnataka
3. Tamil Nadu
4. Chhattisgarh

Solution :

The correct answer is **Option 4** i.e. **Chhattisgarh**.

- Boramdeo a thousand year old temple situated in Chouragaon is 18 km from Kawardha in Kabirdham district of Chhattisgarh and 125 Km from Raipur . this temple is dedicated to Lord Shiva.
- The temple has a carved out image of the King Ramchandra of the Nag Dynasty at the entrance, and the temple has a special place in the hearts of the people at Chhattisgarh. Boramdeo Sanctuary, Arang, Durg, Rajim,



Champaram and Sirpur are some of the places that the tourists can explore apart from the festival.

Question 45 :

Who became the first Indian Air Force pilot to perform a wingsuit skydive jump? She/he achieved this feat in July 2019.

Difficulty : Moderate

Average Time : 58 Seconds

Options :

1. Shital Mahajan Rane
2. Archana Sardana
3. Rachel Thomas
4. Tarun Chaudhri

Solution :

The correct answer is **Option 4** i.e. **Tarun Chaudhri**.

- Group Captain Tarun Chaudhry (20452) Flying (Pilot) was commissioned into the fighter stream of the IAF on 16 Dec 89.
- He is responsible for the HR and career planning issues for nearly 1400 officers from the Fighter stream, up to the rank of Gp Capt.
- He has recommended practical and result-oriented steps including a review of the ex-HOTS OST syllabus so as to cut down on the conversion period and establishment of an additional Type Training squadron for the SU-30 and Jaguar fleet on the OCCUR concept.

Question 46 :

_____ was the son of a Chief of the Jnatrika (or Jhatrika) Kshatriya clan.

Difficulty : Moderate

Average Time : 57 Seconds

Options :

1. Gautama Buddha
2. Rishabhanath
3. Vardhamana Mahavira
4. Parshvanath

Solution :

The correct answer is **Option 3** i.e. **Vardhamana Mahavira**.



Vardhaman Mahavira was the last and twenty-fourth of Tirthankaras who founded Jainism.

- His name Vardhamana refers to prosperity and Mahavira referred to someone who is brave.
- His birth led to the rise of prosperity in his father's kingdom and his brave deeds named him as Vardhamana Mahavira.

Question 47 :

_____ was the residence of the Mughal emperors of India for nearly 200 years until 1857.

Difficulty : Moderate**Average Time : 47 Seconds****Options :**

1. Jehangir Mahal
2. Red Fort
3. Agra Fort
4. Pari Mahal

Solution :

The correct answer is **Option 2** i.e. **Red Fort**.

- The Red Fort, located in the centre of Delhi was the residence of the Mughal emperor for nearly 200 years, until 1857.
- Constructed in 1648 by the fifth Mughal Emperor Shah Jahan as the palace of his fortified capital Shahjahanabad, the Red Fort is named for its massive enclosing walls of red sandstone and is adjacent to the older Salimgarh Fort, built by Islam Shah Suri in 1546.
- The fort lies along the Yamuna River, which fed the moats surrounding most of the walls. Supervised by Shah Jahan, it was completed in 1648.

Question 48 :

Which of the following states won the 'Best Tableau' award at the 71st Republic Day parade in January 2020?

Difficulty : Moderate**Average Time : 60 Seconds****Options :**

1. Assam
2. Goa
3. Odisha
4. Uttar Pradesh

**Solution :**

The correct answer is **Option 1** i.e. **Assam**.

- Assam's Republic Day tableau has been adjudged best among the tableaus from 16 states and Union Territories.
- The theme of Assam's tableau was “**Land of unique craftsmanship and culture**”, displaying bamboo and cane work and Bhortal Nritya performed by Xattriya dancers.
- Best Tableaux awards for Republic Day Parade, 2020 was given by Defence Minister Rajnath Singh.

Question 49 :

The Uttar Pradesh cabinet approved a proposal to name a zoological garden at _____ after the freedom fighter and revolutionary Ashfaqullah Khan.

Difficulty : Moderate**Average Time : 53 Seconds****Options :**

1. Gorakhpur
2. Faizabad
3. Shahjahanpur
4. Ghaziabad

Solution :

The correct answer is **Option 1** i.e. **Gorakhpur**.

- The UP Cabinet approved a proposal to set aside Rs 234 crore for construction of a zoological garden named after Shaheed Ashfaqullah Khan in Gorakhpur.
- The purpose of the zoological garden is conservation of wildlife.
- At present, there are two zoological gardens in Uttar Pradesh, one in Lucknow and another in Kanpur.
- Shaheed Ashfaqullah Khand Zoological Garden was proposed in 2008-2009.

Question 50 :

Which of the following statements about the Mahanadi River is INCORRECT?

Difficulty : Moderate**Average Time : 50 Seconds****Options :**

1. It rises in the highlands of Chhattisgarh.
2. It drains into the Arabian Sea.
3. A part of its river basin lies in Maharashtra.



It is about 860 km long.

Solution :

The correct answer is **Option 2** i.e. **It drains into the Arabian Sea.**

- Mahanadi rises from the Raipur district of Chhatisgarh and flows for about 851 km before its outfall into the Bay of Bengal.
- The river originates near Lanjigarh village in Kalahandi district of Odisha and runs a total distance of about 254 Km before it joins the Bay of Bengal at Kalingapatnam in Andhra Pradesh.
- Hirakud Dam is built across the Mahanadi River.

Question 51 :

Who is the author of the book 'Courts of India: Past to Present'?

Difficulty : Moderate

Average Time : 58 Seconds

Options :

1. Shashi Tharoor
2. Satyarth Nayak
3. Jayanta Kalita
4. Ranjan Gogoi

Solution :

The correct answer is **Option 4** i.e. **Ranjan Gogoi.**

- CJI Ranjan Gogoi: 'The Courts of India: Past to Present' Book is a masterpiece on Indian judicial history.
- Ranjan Gogoi was the Chief Justice of India from October 3, 2018 to November 17, 2019.
- He was sworn in as a member of the Rajya Sabha on March 19, 2020.

Question 52 :

The Government of India approved the Ayushman Bharat Pradhan Mantri Jan Arogya Yojana (AB-PM-JAY) in the year _____.

Difficulty : Moderate

Average Time : 47 Seconds

Options :

1. 2018
2. 2014



2019

4. 2015

Solution :

The correct answer is **Option 1** i.e. **2018**.

- Ayushman Bharat –Pradhan Mantri Jan AarogyaYojana (AB-PMJAY) was launched by Prime Minister Shri Narendra Modi in Ranchi, Jharkahnd on September 23, 2018.
- Ayushman Bharat- Pradhan Mantri Jan ArogyaYojana (PMJAY) will provide a cover of up to Rs. 5 lakhs per family per year, for secondary and tertiary care hospitalization.
- Over 10.74 crore vulnerable entitled families (approximately 50 crore beneficiaries) will be eligible for these benefits.

Question 53 :

The money value of all the final goods and services produced within the country during a particular year is called _____.

Difficulty : Moderate

Average Time : 51 Seconds

Options :

1. per capita income
2. per Domestic Product
3. national Income
4. gross Domestic Product

Solution :

The correct answer is **Option 4** i.e. **gross Domestic Product**.

- GDP stands for "Gross Domestic Product" and represents the total monetary value of all final goods and services produced (and sold on the market) within a country during a period of time (typically 1 year).
- GDP is the most commonly used measure of economic activity.
- $GDP = \text{private consumption} + \text{gross private investment} + \text{government investment} + \text{government spending} + (\text{exports} - \text{imports})$.

Question 54 :

Which of the following options gives the correct chronological order of rulers of the Mauryan Empire?

Difficulty : Moderate

Average Time : 52 Seconds

Options :



Brihadratha - Chandragupta - Bindusara - Ashoka

2. Ashoka - Brihadratha - Chandragupta - Bindusara

3. Chandragupta - Bindusara - Ashoka - Brihadratha

4. Bindusara - Chandragupta - Ashoka - Brihadratha

Solution :

The correct answer is **Option 3** i.e. **Chandragupta - Bindusara - Ashoka - Brihadratha.**

- The Mauryan Empire was the largest empire to rule the Indian subcontinent.
- The Mauryan Empire, which formed around 321 B.C.E. and ended in 185 B.C.E., was the first pan-Indian empire, an empire that covered most of the Indian region.
- The Mauryan Empire's first leader, Chandragupta Maurya, started consolidating land as Alexander the Great's power began to wane.

Question 55 :

Which of the following is NOT a fundamental right under the 44th Amendment Act, 1978 of Indian constitution?

Difficulty : Moderate

Average Time : 59 Seconds

Options :

1. Right to property
2. Right to equality
3. Right against exploitation
4. Right to religion

Solution :

The correct answer is **Option 1** i.e. **Right to property.**

- By 44th Amendment Act 1978 of the Constitution of India, a new article namely 300A was inserted and titled as Right to Property.
- As per the Act, No person shall be deprived of his property save by authority of law.
- It means that barring the state, no one can deprive a person of his property.

Question 56 :

Which of the following countries hosted the 13th edition of the 2020 ICC Under 19 Cricket World Cup?

Difficulty : Moderate

Average Time : 51 Seconds

Options :

1. England
2. South Africa
3. Australia
4. India

Solution :

The correct answer is **Option 2** i.e. **South Africa**.

- The 13th edition of the ICC Under-19 World Cup 2020 was held in South Africa.
- The tournament started on January 17' 2020.
- Defending champion India was included in Group A alongside New Zealand, Sri Lanka, and debutant Japan.

Question 57 :

In which state is the Hogenakkal Falls located?

Difficulty : Moderate

Average Time : 47 Seconds

Options :

1. Andhra Pradesh
2. Kerala
3. Maharashtra
4. Tamil Nadu

Solution :

The correct answer is **Option 4** i.e. **Tamil Nadu**.

- It is located on the border between the Dharmapuri district of Tamil Nadu and the Chamarajanagar district of Karnataka.
- In Hogenakal the river Cauvery enters into Tamil Nadu as a big river with gushing water presentably as a natural falls.
- The name Hogenakal is derived from Kannada means 'Smoky Rocks'.

Question 58 :

The Life Insurance Corporation of India Act was passed by the Parliament in the year _____.

Difficulty : Moderate

Average Time : 50 Seconds

Options :



1956

2. 1948

3. 1971

4. 1965

Solution :

The correct answer is **Option 1** i.e. **1956**.

- LIC formed by an Act of Parliament, viz. LIC Act, 1956, with a capital contribution of Rs. 5 crore from the Government of India.
- Life Insurance Corporation of India, Act was passed by the Parliament on June 18, 1956 and came into effect from July 1, 1956.
- An Act to provide for the nationalisation of life insurance business in India by transferring all such business to a Corporation established for the purpose and to provide for the regulation and control of the business of the Corporation and for matters connected therewith or incidental thereto.

Question 59 :

Which of the following is a biometric enabled digital service for pensioners launched by the Government of India?

Difficulty : Moderate

Average Time : 57 Seconds

Options :

1. Pradhan Mantri Jeevan Jyoti Beema Yojna
2. Pradhan Mantri Mudra Yojna
3. Pradhan Mantri Jan Dhan Yojna
4. Jeevan Pramaan

Solution :

The correct answer is **Option 4** i.e. **Jeevan Pramaan**.

- Jeevan Pramaan is a document used to provide to get a smooth flow of pension funds every month is to submit Jeevan Pramaan Patra/Life Certificate to the pension disbursing agency.
- If the life certificate is not submitted, then pension will not be disbursed in the pensioner's bank account.

Question 60 :

Tvesa Malik is an Indian _____ player.

Difficulty : Moderate

Average Time : 49 Seconds

**Options :**

1. volleyball
2. golf
3. chess
4. basetball

Solution :

The correct answer is **Option 2** i.e. **golf**.

- Tvesa Malik is an Indian golf player.
- She has recently won the 4th leg of the Hero Women's Golf Tour this month.
- The field of 126 players, include five Indians and has players from 28 countries. Tvesa recorded a best finish of T-26 at the Aramco Series-Bangkok individual event and last week she was T-45 at Jabra Ladies Open.
- In 2021, Tvesa had a series of top-10 and top-15 finishes and also came close to winning her maiden title by finishing second in Belgium.

Question 61 :

The value of $42 \div 9$ of $6 - [64 \div 48 \times 3 - 15 \div 8 \times (11 - 17) \div 9] \div 14$ is:

Difficulty : Moderate**Average Time : 61 Seconds****Options :**

1. $\frac{19}{36}$
2. $\frac{7}{18}$
3. $\frac{29}{72}$
4. $\frac{5}{12}$

Solution :

The correct answer is **Option 3** i.e. **29/72**.

$$\begin{aligned} & 42 \div 9 \text{ of } 6 - [64 \div 48 \times 3 - 15 \div 8 \times (11 - 17) \div 9] \div 14 \\ &= 42 \div 54 - [64 \div 48 \times 3 - 15 \div 8 \times (11 - 17) \div 9] \div 14 \\ &= 42 \div 54 - [64 \div 48 \times 3 - 15 \div 8 \times (-6) \div 9] \div 14 \end{aligned}$$



$$= 7/9 - [(4/3) \times 3 - 15/8 \times (-2/3)] \div 14$$

$$= 7/9 - [4 + 5/4] \div 14$$

$$= 7/9 - [(16 + 5)/4] \div 14$$

$$= 7/9 - 21/4 \div 14$$

$$= 7/9 - 3/8$$

$$= (56 - 27)/72$$

$$= 29/72$$

Question 62 :

A can do $\frac{2}{5}$ of a work in 6 days and B can do 30% of the same work in 3 days. They worked for 4 days. The remaining work was completed by C alone in 6 days. B and C together can complete 70% of the original work in:

Difficulty : Moderate**Average Time : 61 Seconds****Options :**

1. $5\frac{1}{2}$ days
2. 4 days
3. 5 days
4. $4\frac{1}{2}$ days

Solution :

The correct answer is **Option 4** i.e. $4\frac{1}{2}$ days.

A can do a work in 6 days and B can do 30% of the same work in 3 days. They worked together for 4 days. The remaining work was completed by C alone in 6 days.

Total work = Work done per day \times Total time taken

$$\text{LCM}(3, 4, 6) = 12$$

Let the total work be five times the LCM of the time taken by different workers.

$$\text{So, the total work} = 12 \times 5 = 60 \text{ units}$$

$$\text{The efficiency of A} = (2/5 \times 60)/6 = 24/6 = 4 \text{ units}$$

$$\text{The efficiency of B} = (60 \times 30\%)/3 = 18/3 = 6 \text{ units}$$

$$\text{Work done by A and B together in 4 days} = (6 + 4) \times 4 = 40 \text{ units}$$

Remaining work = $(60 - 40) = 20$ units

The efficiency of C = $20/6 = 10/3$ units

Now, B and C together can complete 70% of the original work in = $(60 \times 70\%)/(6 + 10/3) = 42/(28/3) = 4\frac{1}{2}$ days

Question 63 :

The amount of a certain sum in 3 years at simple interest at $x\%$ p.a. is Rs 5,472 and the amount of the same sum in $7\frac{1}{2}$ years at the same rate, at simple interest is Rs 6,930. The value of x is:

Difficulty : Moderate

Average Time : 80 Seconds

Options :

1. 7.2
2. 8.5
3. 8
4. 6.5

Solution :

The correct answer is **Option 1** i.e. **7.2**

The amount of a certain sum in 3 years at simple interest at $x\%$ p.a is Rs. 5,472.

The amount of the same sum is $7\frac{1}{2}$ i.e. 7.5 years at the same rate, at simple interest is Rs. 6,930.

Simple Interest, $SI = (P \times R \times T)/100$

Amount = $P + SI$ (where P = Principal, R = Rate of interest per year, T = Time in years)

Let the sum be Rs. p .

According to the question -

$$p + (p \times x \times 3)/100 = 5472 \dots(1)$$

According to the question -

$$p + (p \times x \times 7.5)/100 = 6930 \dots(2)$$

(2) - (1) we get -

$$p + (p \times x \times 7.5)/100 - p - (p \times x \times 3)/100 = 6930 - 5472$$

$$7.5xp/100 - 3xp/100 = 1458$$



$$4.5xp/100 = 1458$$

$$xp = 145800/4.5$$

$$xp = 32400 \dots(3)$$

Putting $xp = 32400$ in (2)

$$p + (p \times x \times 7.5)/100 = 6930$$

$$p + (32400 \times 7.5)/100 = 6930$$

$$p = 6930 - (32400 \times 7.5)/100$$

$$p = 6930 - 2430$$

$$p = 4500 \dots(4)$$

Putting $p = 4500$ in (3)

$$x \times 4500 = 32400$$

$$x = 32400/4500$$

$$x = 7.2$$

Question 64 :

There are two sections A and B of a class, consisting of 38 and 42 students, respectively. If the average weight of the students of section A is 55 kg and that of section B is 32 kg, find the average weight of all the students in the class.

Difficulty : Moderate**Average Time : 88 Seconds****Options :**

1. 42 kg
2. 42.925 kg
3. 44.925 kg
4. 40.925 kg

Solution :

The correct answer is **Option 2** i.e. **42.925 kg**.

There are two sections A and B of a class, consisting of 38 and 42 students respectively.

The average weight of the students of section A is 55 Kg and that of section B is 32 Kg.



Total = Average \times Number of entities

Total weight of all students in section A = $38 \times 55 = 2090$ kg

Total weight of all students in section B = $42 \times 32 = 1344$ kg

The total number of students in both sections together = $38 + 42 = 80$

Now, the average weight of all the students in the class = $(2090 + 1344)/80 = 3434/80 = 42.925$ kg

Question 65 :

A dealer sold an article at a loss of 4%. Had he sold it for Rs 120 more, he would have gained 8%. To gain 11% he should sell the article for?

Difficulty : Moderate

Average Time : 61 Seconds

Options :

1. Rs 1,110
2. Rs 1,200
3. Rs 1,320
4. Rs 1,210

Solution :

The correct answer is **Option 1** i.e. **Rs. 1110**.

A dealer sold an article at a loss of 4%. Had he sold it for Rs. 120 more, he would have gained 8%.

Selling Price = Cost Price - Cost Price \times Loss%

Selling Price = Cost Price + Cost Price \times Gain%

Let the cost price be x.

So, the selling price of the article = $x - x \times 4\% = x - x \times 0.04 = 0.96x$

According to the question -

$$x + x \times 8\% = 0.96x + 120$$

$$x + x \times 0.08 = 0.96x + 120$$

$$1.08x = 0.96x + 120$$

$$1.08x - 0.96x = 120$$



$$0.12x = 120$$

$$x = 120/0.12$$

$$x = 1000$$

Now, to gain 11% he should sell the article for = $1000 + 1000 \times 11\% = 1000 + 110 = \text{Rs. } 1100$

Question 66 :

A sum fetched a simple interest of Rs 3,040 at the rate of 8% p.a. in 5 years. What is the sum?

Difficulty : Moderate

Average Time : 70 Seconds

Options :

1. Rs 8600
2. Rs 7600
3. Rs 7700
4. Rs 6600

Solution :

The correct answer is **Option 2** i.e. **Rs 7600**

A sum fetched a simple interest of Rs. 3,040 at the rate of 8% p.a in 5 years.

Simple Interest, $SI = (P \times R \times T)/100$

Amount = $P + SI$ (where $P = \text{Principal}$, $R = \text{Rate of interest per year}$, $T = \text{Time in years}$)

Let the sum be Rs. x

According to the question -

$$(x \times 8 \times 5)/100 = 3040$$

$$x \times 40 = 304000$$

$$x = 304000/40$$

$$x = 7600$$

Question 67 :

The greatest number that on dividing 2675 and 2320 leaves the remainders 5 and 6, respectively , is:

Difficulty : Moderate

Average Time : 52 Seconds

**Options :**

1. 168
2. 170
3. 187
4. 178

Solution :

The correct answer is **Option 4** i.e. **178**.

The greatest number on dividing 2675 and 2320 leaves the remainder 5 and 6 respectively.

HCF is the largest number or quantity that is a factor of each member of a group of numbers.

The greatest number that on dividing 2675 and 2320 leaves the remainder 5 and 6 respectively is = HCF of (2675 - 5) i.e., 2370, and (2320 - 6) i.e., 2314

$$2670 = 178 \times 15$$

$$2314 = 178 \times 13$$

$$\text{HCF}(2670, 2314) = 178$$

Question 68 :

Speed of an aircraft is 120 km/min. This speed in m/sec is:

Difficulty : Moderate**Average Time : 48 Seconds****Options :**

1. 120000
2. 12000
3. 1200
4. 2000

Solution :

The correct answer is **Option 4** i.e. **2000**.

The speed of an aircraft is 120 Km /min.

Time \times Speed = Distance

$$1\text{m/s} = 18/5 \text{ km/h}$$



The aircraft in 1 minute goes = 120 km

So, the aircraft in 60 minutes goes = $120 \times 60 = 7200$ km

Speed of the aircraft = 7200 km/h

Now, the speed of the aircraft = $7200 / (18/5) = 2000$ m/s

Question 69 :

A and B can complete a piece of work in 120 days, B and C can complete it in 150 days, and A and C can complete it in 200 days. In how many days can B alone complete two-fifths of the same work?

Difficulty : Moderate**Average Time : 53 Seconds****Options :**

1. 200
2. 100
3. 80
4. 175

Solution :

The correct answer is **Option 3** i.e. **80**.

A and B can complete a piece of work in 120 days.

B and C can complete it in 150 days.

A and C can complete it in 200 days.

Total work = Work done per day \times Total time taken

LCM (120, 150, 200) = 600

Let the total work be the LCM of the time taken by different workers.

So, total work = 600 units

Let the efficiencies of A, B, and C be denoted by A, B, and C.

According to the question -

$A + B = 600/120$

$A + B = 5 \dots(1)$

$$B + C = 600/150$$

$$B + C = 4 \dots(2)$$

$$A + C = 600/200$$

$$A + C = 3 \dots(3)$$

$$(1) + (2) + (3) -$$

$$A + B + B + C + A + C = 5 + 4 + 3$$

$$2(A + B + C) = 12$$

$$(A + B + C) = 12/2$$

$$(A + B + C) = 6 \dots(4)$$

$$(4) - (3) -$$

$$(A + B + C) - (A + C) = 6 - 3$$

$$A + B + C - A - C = 3$$

$$B = 3$$

Now, the time taken by B to complete two-fifths of the same work = $(600/3) \times (2/5) = 80$ days

In 80 days B can alone complete two-fifths of the same work.

Question 70 :

If the sides of a triangle measure 21cm, 35cm and 28cm, what is the measure of its in radius?(in cm)

Difficulty : Moderate

Average Time : 86 Seconds

Options :

1. 8 cm
2. 7 cm
3. 21 cm
4. 9 cm

Solution :

The correct answer is **Option 2** i.e. **7 cm**.

The sides of the triangle measure 21 cm, 35 cm, and 28 cm.

Semi perimeter of a triangle, $S = (A + B + C)/2$ (A, B, C is the length of three sides of the triangle)

Area of a triangle = $S(S - A)(S - B)(S - C)$

The measure of the inradius of a triangle = Area of the triangle/Semiperimeter of the triangle

Semi perimeter of the triangular park = $(21 + 35 + 28)/2 = 84/2 = 42$ m

Area of the triangular park = $42(42 - 21)(42 - 35)(42 - 28) = 42(21)(7)(14) = 86436 = 294 \text{ cm}^2$

The inradius of triangle = $294/42 = 7$ cm

Question 71 :

Select the correct mirror image of the given combination when the mirror is placed at 'PQ' as shown.

Difficulty : Moderate

Average Time : 63 Seconds

Options :

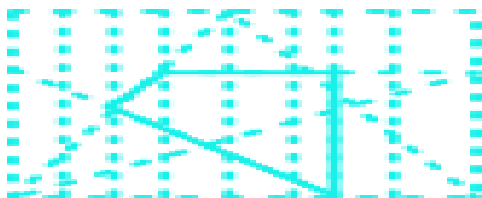
- 1.
- 2.
- 3.
- 4.

Solution :

The correct answer is **option 1**.



The mirror image of the question figure is shown below:



Since the mirror is placed right to the question figure, the right-hand side of the original image will be now the left-hand side of the mirror image.

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

Question 72 :

Select the Venn diagram that best represents the relationship between the following classes. School, Teacher, Employee

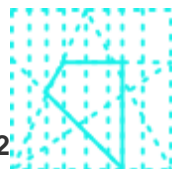
Difficulty : Moderate

Average Time : 73 Seconds

Options :

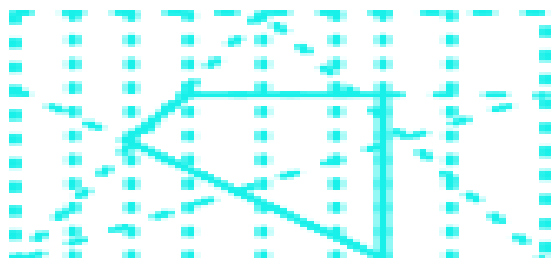
- 1.
- 2.
- 3.
- 4.

Solution :



The correct answer is **option 2**.

The possible Venn diagram is:



Some employees are in schools. Some teachers are employees. Some teachers are in schools.

Hence, the diagram given above shows the best relationship between them.

Question 73 :

Select the figure from among the given options that can replace the question mark (?) in the given series?

Difficulty : Moderate

Average Time : 68 Seconds

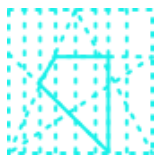
Options :

- 1.
- 2.
- 3.
- 4.



Solution :

The correct answer is **option 4** i.e.



Pattern:

The Pentagon is moving in a clockwise direction.

The line has 1 arrow at one end (the part which is at the corner) and arrows at both ends (the parts which are touching the side and the corner both) alternatively.

Question 74 :

The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the following

figures. How would this paper look when unfolded?

Difficulty : Moderate

Average Time : 71 Seconds

Options :

- 1.
- 2.
- 3.
- 4.

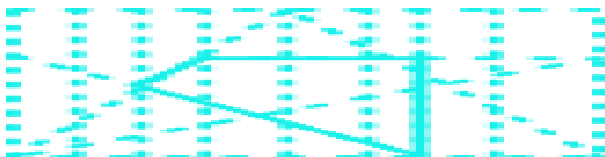


Solution :

The correct answer is **option 4** .



After unfolding, the paper will appear as follows:



Question 75 :

Select the option in which the given figure is embedded (rotation is NOT allowed).

Difficulty : Moderate

Average Time : 63 Seconds

Options :

- 1.
- 2.
- 3.
- 4.

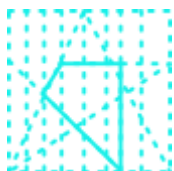


Solution :

The correct answer is **option 2** .



The figure in option 2 is embedded in the given figure, as shown below:



Comprehension :

2. $\frac{1}{2} + \frac{1}{3} = \frac{3}{6} + \frac{2}{6} = \frac{5}{6}$ 3. $\frac{1}{2} + \frac{1}{3} = \frac{3}{6} + \frac{2}{6} = \frac{5}{6}$ 4. $\frac{1}{2} + \frac{1}{3} = \frac{3}{6} + \frac{2}{6} = \frac{5}{6}$

Difficulty : Moderate**Average Time : 35 Seconds****Options :**

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Solution :

2. $\frac{1}{2} + \frac{1}{3} = \frac{3}{6} + \frac{2}{6} = \frac{5}{6}$ 3. $\frac{1}{2} + \frac{1}{3} = \frac{3}{6} + \frac{2}{6} = \frac{5}{6}$ 4. $\frac{1}{2} + \frac{1}{3} = \frac{3}{6} + \frac{2}{6} = \frac{5}{6}$

Comprehension :

2. $\frac{1}{2} + \frac{1}{3} = \frac{3}{6} + \frac{2}{6} = \frac{5}{6}$ 3. $\frac{1}{2} + \frac{1}{3} = \frac{3}{6} + \frac{2}{6} = \frac{5}{6}$ 4. $\frac{1}{2} + \frac{1}{3} = \frac{3}{6} + \frac{2}{6} = \frac{5}{6}$

Question 79 :

2. $\frac{1}{2} + \frac{1}{3} = \frac{3}{6} + \frac{2}{6} = \frac{5}{6}$ 3. $\frac{1}{2} + \frac{1}{3} = \frac{3}{6} + \frac{2}{6} = \frac{5}{6}$ 4. $\frac{1}{2} + \frac{1}{3} = \frac{3}{6} + \frac{2}{6} = \frac{5}{6}$

Difficulty : Moderate**Average Time : 35 Seconds****Options :**

- 1. 1
- 2. 2
- 3. 3
- 4. 4



Solution :

अस्य अक्षर संख्यां निर्धार्य च्छः अक्षर संख्यां निर्धार्य च्छः अक्षर संख्यां निर्धार्य च्छः अक्षर संख्यां निर्धार्य च्छः अक्षर संख्यां निर्धार्य च्छः

अस्य अक्षर संख्यां निर्धार्य च्छः अक्षर संख्यां निर्धार्य च्छः अक्षर संख्यां निर्धार्य च्छः अक्षर संख्यां निर्धार्य च्छः अक्षर संख्यां निर्धार्य च्छः

Comprehension :

अस्य अक्षर संख्यां निर्धार्य च्छः अक्षर संख्यां निर्धार्य च्छः अक्षर संख्यां निर्धार्य च्छः अक्षर संख्यां निर्धार्य च्छः अक्षर संख्यां निर्धार्य च्छः

Question 80 :

अस्य अक्षर संख्यां निर्धार्य च्छः 21 अस्य अक्षर संख्यां निर्धार्य च्छः अस्य अक्षर संख्यां निर्धार्य च्छः अस्य अक्षर संख्यां निर्धार्य च्छः

Difficulty : Moderate

Average Time : 36 Seconds

Options :

- 1. 1
2. 2
3. 3
4. 4

Solution :

अस्य अक्षर संख्यां निर्धार्य च्छः अक्षर संख्यां निर्धार्य च्छः अक्षर संख्यां निर्धार्य च्छः अक्षर संख्यां निर्धार्य च्छः

अस्य अक्षर संख्यां निर्धार्य च्छः अस्य अक्षर संख्यां निर्धार्य च्छः अस्य अक्षर संख्यां निर्धार्य च्छः अस्य अक्षर संख्यां निर्धार्य च्छः

Question 81 :

अस्य अक्षर संख्यां निर्धार्य च्छः अस्य अक्षर संख्यां निर्धार्य च्छः अस्य अक्षर संख्यां निर्धार्य च्छः अस्य अक्षर संख्यां निर्धार्य च्छः

3

4. 4

Solution :

$\frac{1}{2} + \frac{1}{3} = \frac{3}{6} + \frac{2}{6} = \frac{5}{6}$

Question 83 :

A number is divided by 18 and the remainder is 12. If the number is divided by 12, the remainder is 6. If the number is divided by 6, the remainder is 3. If the number is divided by 3, the remainder is 0. What is the number?

Difficulty : Moderate**Average Time : 26 Seconds****Options :**

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Solution :

$\frac{1}{2} + \frac{1}{3} = \frac{3}{6} + \frac{2}{6} = \frac{5}{6}$

A number is divided by 18 and the remainder is 12. If the number is divided by 12, the remainder is 6. If the number is divided by 6, the remainder is 3. If the number is divided by 3, the remainder is 0. What is the number?

Question 84 :

A number is divided by 18 and the remainder is 12. If the number is divided by 12, the remainder is 6. If the number is divided by 6, the remainder is 3. If the number is divided by 3, the remainder is 0. What is the number?

Difficulty : Moderate**Average Time : 27 Seconds****Options :**

- 1. 18



...

Question 88 :

...

Difficulty : Moderate

Average Time : 30 Seconds

Options :

- 1. 1
2. 2
3. 3
4. 4

Solution :

...

Question 89 :

...

Difficulty : Moderate

Average Time : 28 Seconds

Options :

- 1. 1
2. 2
3. 3

4

Solution :

Let $x = \frac{1}{a}$, $y = \frac{1}{b}$, $z = \frac{1}{c}$. Then $x + y + z = 2$ and $x^2 + y^2 + z^2 = \frac{1}{a^2} + \frac{1}{b^2} + \frac{1}{c^2} = \frac{1}{a^2} + \frac{1}{b^2} + \frac{1}{c^2}$. We need to find $\frac{1}{a^2} + \frac{1}{b^2} + \frac{1}{c^2}$.
 $(x + y + z)^2 = x^2 + y^2 + z^2 + 2(xy + yz + zx)$
 $2^2 = \frac{1}{a^2} + \frac{1}{b^2} + \frac{1}{c^2} + 2(\frac{1}{ab} + \frac{1}{bc} + \frac{1}{ca})$
 $4 = \frac{1}{a^2} + \frac{1}{b^2} + \frac{1}{c^2} + 2(\frac{a+b+c}{abc})$
 $4 = \frac{1}{a^2} + \frac{1}{b^2} + \frac{1}{c^2} + 2(\frac{2}{abc})$
 $4 = \frac{1}{a^2} + \frac{1}{b^2} + \frac{1}{c^2} + \frac{4}{abc}$
 $\frac{1}{a^2} + \frac{1}{b^2} + \frac{1}{c^2} = 4 - \frac{4}{abc}$

Question 90 :

Let $x = \frac{1}{a}$, $y = \frac{1}{b}$, $z = \frac{1}{c}$. Then $x + y + z = 11$ and $x^2 + y^2 + z^2 = \frac{1}{a^2} + \frac{1}{b^2} + \frac{1}{c^2} = \frac{1}{a^2} + \frac{1}{b^2} + \frac{1}{c^2}$. We need to find $\frac{1}{a^2} + \frac{1}{b^2} + \frac{1}{c^2}$.
 $(x + y + z)^2 = x^2 + y^2 + z^2 + 2(xy + yz + zx)$
 $11^2 = \frac{1}{a^2} + \frac{1}{b^2} + \frac{1}{c^2} + 2(\frac{1}{ab} + \frac{1}{bc} + \frac{1}{ca})$
 $121 = \frac{1}{a^2} + \frac{1}{b^2} + \frac{1}{c^2} + 2(\frac{a+b+c}{abc})$
 $121 = \frac{1}{a^2} + \frac{1}{b^2} + \frac{1}{c^2} + 2(\frac{11}{abc})$
 $121 = \frac{1}{a^2} + \frac{1}{b^2} + \frac{1}{c^2} + \frac{22}{abc}$
 $\frac{1}{a^2} + \frac{1}{b^2} + \frac{1}{c^2} = 121 - \frac{22}{abc}$

Difficulty : Moderate

Average Time : 28 Seconds

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Solution :

Let $x = \frac{1}{a}$, $y = \frac{1}{b}$, $z = \frac{1}{c}$. Then $x + y + z = 4$ and $x^2 + y^2 + z^2 = \frac{1}{a^2} + \frac{1}{b^2} + \frac{1}{c^2} = \frac{1}{a^2} + \frac{1}{b^2} + \frac{1}{c^2}$. We need to find $\frac{1}{a^2} + \frac{1}{b^2} + \frac{1}{c^2}$.
 $(x + y + z)^2 = x^2 + y^2 + z^2 + 2(xy + yz + zx)$
 $4^2 = \frac{1}{a^2} + \frac{1}{b^2} + \frac{1}{c^2} + 2(\frac{1}{ab} + \frac{1}{bc} + \frac{1}{ca})$
 $16 = \frac{1}{a^2} + \frac{1}{b^2} + \frac{1}{c^2} + 2(\frac{a+b+c}{abc})$
 $16 = \frac{1}{a^2} + \frac{1}{b^2} + \frac{1}{c^2} + 2(\frac{4}{abc})$
 $16 = \frac{1}{a^2} + \frac{1}{b^2} + \frac{1}{c^2} + \frac{8}{abc}$
 $\frac{1}{a^2} + \frac{1}{b^2} + \frac{1}{c^2} = 16 - \frac{8}{abc}$

Question 91 :

Let $x = \frac{1}{a}$, $y = \frac{1}{b}$, $z = \frac{1}{c}$. Then $x + y + z = \frac{1}{a} + \frac{1}{b} + \frac{1}{c} = \frac{1}{a} + \frac{1}{b} + \frac{1}{c}$. We need to find $\frac{1}{a} + \frac{1}{b} + \frac{1}{c}$.
 $(x + y + z)^2 = x^2 + y^2 + z^2 + 2(xy + yz + zx)$
 $(\frac{1}{a} + \frac{1}{b} + \frac{1}{c})^2 = \frac{1}{a^2} + \frac{1}{b^2} + \frac{1}{c^2} + 2(\frac{1}{ab} + \frac{1}{bc} + \frac{1}{ca})$
 $\frac{1}{a^2} + \frac{1}{b^2} + \frac{1}{c^2} = (\frac{1}{a} + \frac{1}{b} + \frac{1}{c})^2 - 2(\frac{1}{ab} + \frac{1}{bc} + \frac{1}{ca})$

Difficulty : Moderate

Average Time : 26 Seconds

Options :

- 1. $\frac{1}{a} + \frac{1}{b} + \frac{1}{c} - \frac{2}{abc}$
- 2. $\frac{1}{a} + \frac{1}{b} + \frac{1}{c} + \frac{2}{abc}$
- 3. $\frac{1}{a} + \frac{1}{b} + \frac{1}{c}$

द्वि-आधारीय अक्षरों के समूहों में कौन सा अक्षर शामिल है?

Solution :

द्वि-आधारीय अक्षरों के समूहों में कौन सा अक्षर शामिल है? दिए गए विकल्पों में से सही उत्तर चुनें।
अक्षरों के समूहों में कौन सा अक्षर शामिल है? दिए गए विकल्पों में से सही उत्तर चुनें।
द्वि-आधारीय अक्षरों के समूहों में कौन सा अक्षर शामिल है? दिए गए विकल्पों में से सही उत्तर चुनें।

Question 92 :

द्वि-आधारीय अक्षरों के समूहों में कौन सा अक्षर शामिल है? दिए गए विकल्पों में से सही उत्तर चुनें।
द्वि-आधारीय अक्षरों के समूहों में कौन सा अक्षर शामिल है? दिए गए विकल्पों में से सही उत्तर चुनें।

Difficulty : Moderate

Average Time : 32 Seconds

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Solution :

द्वि-आधारीय अक्षरों के समूहों में कौन सा अक्षर शामिल है? दिए गए विकल्पों में से सही उत्तर चुनें।
द्वि-आधारीय अक्षरों के समूहों में कौन सा अक्षर शामिल है? दिए गए विकल्पों में से सही उत्तर चुनें।

Question 93 :

द्वि-आधारीय अक्षरों के समूहों में कौन सा अक्षर शामिल है? दिए गए विकल्पों में से सही उत्तर चुनें।
द्वि-आधारीय अक्षरों के समूहों में कौन सा अक्षर शामिल है? दिए गए विकल्पों में से सही उत्तर चुनें।

Difficulty : Moderate

Average Time : 28 Seconds

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Solution :

2nd day = 50% of 100 = 50, 3rd day = 50% of 50 = 25, 4th day = 50% of 25 = 12.5, 5th day = 50% of 12.5 = 6.25, 6th day = 50% of 6.25 = 3.125, 7th day = 50% of 3.125 = 1.5625, 8th day = 50% of 1.5625 = 0.78125, 9th day = 50% of 0.78125 = 0.390625, 10th day = 50% of 0.390625 = 0.1953125, 11th day = 50% of 0.1953125 = 0.09765625, 12th day = 50% of 0.09765625 = 0.048828125, 13th day = 50% of 0.048828125 = 0.0244140625, 14th day = 50% of 0.0244140625 = 0.01220703125, 15th day = 50% of 0.01220703125 = 0.006103515625, 16th day = 50% of 0.006103515625 = 0.0030517578125, 17th day = 50% of 0.0030517578125 = 0.00152587890625, 18th day = 50% of 0.00152587890625 = 0.000762939453125, 19th day = 50% of 0.000762939453125 = 0.0003814697265625, 20th day = 50% of 0.0003814697265625 = 0.00019073486328125

Question 94 :

2nd day = 50% of 100 = 50, 3rd day = 50% of 50 = 25, 4th day = 50% of 25 = 12.5, 5th day = 50% of 12.5 = 6.25, 6th day = 50% of 6.25 = 3.125, 7th day = 50% of 3.125 = 1.5625, 8th day = 50% of 1.5625 = 0.78125, 9th day = 50% of 0.78125 = 0.390625, 10th day = 50% of 0.390625 = 0.1953125, 11th day = 50% of 0.1953125 = 0.09765625, 12th day = 50% of 0.09765625 = 0.048828125, 13th day = 50% of 0.048828125 = 0.0244140625, 14th day = 50% of 0.0244140625 = 0.01220703125, 15th day = 50% of 0.01220703125 = 0.006103515625, 16th day = 50% of 0.006103515625 = 0.0030517578125, 17th day = 50% of 0.0030517578125 = 0.00152587890625, 18th day = 50% of 0.00152587890625 = 0.000762939453125, 19th day = 50% of 0.000762939453125 = 0.0003814697265625, 20th day = 50% of 0.0003814697265625 = 0.00019073486328125

Difficulty : Moderate

Average Time : 28 Seconds

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Solution :

2nd day = 50% of 100 = 50, 3rd day = 50% of 50 = 25, 4th day = 50% of 25 = 12.5, 5th day = 50% of 12.5 = 6.25, 6th day = 50% of 6.25 = 3.125, 7th day = 50% of 3.125 = 1.5625, 8th day = 50% of 1.5625 = 0.78125, 9th day = 50% of 0.78125 = 0.390625, 10th day = 50% of 0.390625 = 0.1953125, 11th day = 50% of 0.1953125 = 0.09765625, 12th day = 50% of 0.09765625 = 0.048828125, 13th day = 50% of 0.048828125 = 0.0244140625, 14th day = 50% of 0.0244140625 = 0.01220703125, 15th day = 50% of 0.01220703125 = 0.006103515625, 16th day = 50% of 0.006103515625 = 0.0030517578125, 17th day = 50% of 0.0030517578125 = 0.00152587890625, 18th day = 50% of 0.00152587890625 = 0.000762939453125, 19th day = 50% of 0.000762939453125 = 0.0003814697265625, 20th day = 50% of 0.0003814697265625 = 0.00019073486328125

Question 95 :

2nd day = 50% of 100 = 50, 3rd day = 50% of 50 = 25, 4th day = 50% of 25 = 12.5, 5th day = 50% of 12.5 = 6.25, 6th day = 50% of 6.25 = 3.125, 7th day = 50% of 3.125 = 1.5625, 8th day = 50% of 1.5625 = 0.78125, 9th day = 50% of 0.78125 = 0.390625, 10th day = 50% of 0.390625 = 0.1953125, 11th day = 50% of 0.1953125 = 0.09765625, 12th day = 50% of 0.09765625 = 0.048828125, 13th day = 50% of 0.048828125 = 0.0244140625, 14th day = 50% of 0.0244140625 = 0.01220703125, 15th day = 50% of 0.01220703125 = 0.006103515625, 16th day = 50% of 0.006103515625 = 0.0030517578125, 17th day = 50% of 0.0030517578125 = 0.00152587890625, 18th day = 50% of 0.00152587890625 = 0.000762939453125, 19th day = 50% of 0.000762939453125 = 0.0003814697265625, 20th day = 50% of 0.0003814697265625 = 0.00019073486328125

अवकश है कि एक छात्र को एक ही परीक्षा में दो बार प्रवेश मिल सकता है। यदि ऐसा हो तो उसे दो बार प्रवेश लेना होगा, जो कि असंभव है।

Question 97 :

अवकश है कि एक छात्र को एक ही परीक्षा में दो बार प्रवेश मिल सकता है। यदि ऐसा हो तो उसे दो बार प्रवेश लेना होगा, जो कि असंभव है।

Difficulty : Moderate

Average Time : 25 Seconds

Options :

- 1. अवकश है कि
- 2. अवकश है कि
- 3. अवकश है कि
- 4. अवकश है कि

Solution :

अवकश है कि एक छात्र को एक ही परीक्षा में दो बार प्रवेश मिल सकता है। यदि ऐसा हो तो उसे दो बार प्रवेश लेना होगा, जो कि असंभव है।

अवकश है कि एक छात्र को एक ही परीक्षा में दो बार प्रवेश मिल सकता है। यदि ऐसा हो तो उसे दो बार प्रवेश लेना होगा, जो कि असंभव है।

Question 98 :

'अवकश है कि एक छात्र को एक ही परीक्षा में दो बार प्रवेश मिल सकता है। यदि ऐसा हो तो उसे दो बार प्रवेश लेना होगा, जो कि असंभव है।'

Difficulty : Moderate

Average Time : 27 Seconds

Options :

- 1. अवकश है कि
- 2. अवकश है कि
- 3. अवकश है कि
- 4. अवकश है कि

Solution :

अवकश है कि एक छात्र को एक ही परीक्षा में दो बार प्रवेश मिल सकता है। यदि ऐसा हो तो उसे दो बार प्रवेश लेना होगा, जो कि असंभव है।

'अवकश है कि एक छात्र को एक ही परीक्षा में दो बार प्रवेश मिल सकता है। यदि ऐसा हो तो उसे दो बार प्रवेश लेना होगा, जो कि असंभव है।'

Question 99 :

एक वक्र $y = x^2 - 2x + 3$ के बिन्दु $(1, 2)$ पर स्पर्श रेखा की समीकरण ज्ञात करें।

Difficulty : Moderate

Average Time : 29 Seconds

Options :

1. $y = 2x - 1$
2. $y = 2x + 1$
3. $y = -2x + 4$
4. $y = -2x - 4$

Solution :

वक्र $y = x^2 - 2x + 3$ का बिन्दु $(1, 2)$ पर स्पर्श रेखा की समीकरण ज्ञात करें।
 वक्र $y = x^2 - 2x + 3$ का बिन्दु $(1, 2)$ पर स्पर्श रेखा की समीकरण ज्ञात करें।
 वक्र $y = x^2 - 2x + 3$ का बिन्दु $(1, 2)$ पर स्पर्श रेखा की समीकरण ज्ञात करें।

Question 100 :

एक वक्र $y = x^2 - 2x + 3$ के बिन्दु $(1, 2)$ पर स्पर्श रेखा की समीकरण ज्ञात करें।

Difficulty : Moderate

Average Time : 28 Seconds

Options :

1. $y = 2x - 1$
2. $y = 2x + 1$
3. $y = -2x + 4$
4. $y = -2x - 4$

Solution :

अस्य प्रश्न का उत्तर 4 है।

अस्य प्रश्न का उत्तर 4 है।

Ssc Gd Constable prelims Previous Year Question Paper Analysis

The analysis of Ssc Gd Constable prelims Previous Year Question Paper held on 2021-11-16 in the Afternoon Hindi exam is as follows:

1. 100 questions were moderate.
2. The safe score is 85 marks.
3. 25 questions were asked from Logical Reasoning, 25 questions were asked from Quantitative Aptitude, 25 questions were asked from General Awareness and 25 questions were asked from Hindi Language
4. 0 questions should have been skipped if you were short of time.

Ssc Gd Constable prelims Previous Year Question Paper Topic Wise Weightage

Logical Reasoning

1. Coding Decoding - 3
2. Analogy - 3
3. Classification - 2
4. Seating Arrangement - 2
5. Blood Relations - 1
6. Syllogism - 1
7. Venn Diagrams - 1
8. Dictionary Based - 1
9. Figure Based - 3
10. Series - 4
11. Mathematical Reasoning - 2
12. Cubes And Dice - 1
13. Seating Arrangement And Puzzle - 1

Quantitative Aptitude

- Simplification - 2
- 2. Average - 2
- 3. Percentage - 2
- 4. Time And Work - 2
- 5. Time Speed And Distance - 2
- 6. Interest - 4
- 7. Ratios And Proportion - 3
- 8. Mensuration - 2
- 9. Number System - 2
- 10. Profit And Loss - 4

General Awareness

- 1. GK Misc - 25

Hindi Language

Ssc Gd Constable prelims Previous Year Question Paper Tips and Tricks



1. Try to solve Ssc Gd Constable prelims Previous Year Question Paper without taking any help from the solutions.
2. Ssc Gd Constable prelims Previous Year Question Paper require proper usage of concept so firstly read the question thoroughly and then use the right concept.
3. In case you're not able to solve the question in less than 30 seconds in the exam then you should skip the question

and move to the next question.

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