

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 Morning 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 :

Find the value of $45 - 3 \times (4 \text{ of } 6 + 12 \div 3 \times 6 - 4 \times 5) + 6$.

Difficulty : Moderate

Average Time : 42 Seconds

Options :

1. -45
2. -135
3. -33
4. -30

Solution :

The correct answer is **option 3** i.e. **-33**

$$45 - 3 \times (4 \text{ of } 6 + 12 \div 3 \times 6 - 4 \times 5) + 6$$

$$45 - 3 \times (4 \times 6 + 4 \times 6 - 20) + 6$$

$$45 - 3 \times (48 - 20) + 6$$

$$51 - 3 \times 28 = 51 - 84 = -33$$

Question 2 :

Five friends, P, Q, R, S, and T are sitting in a row facing south. Q is sitting in the centre position. P is sitting at the west end. T and R are sitting on one side of Q. Two persons are sitting between P and R. Who is sitting between Q and P?

Difficulty : Moderate

Average Time : 51 Seconds

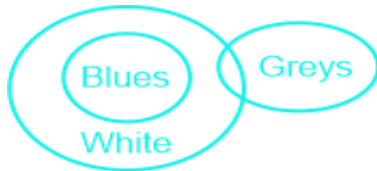
Options :

1. Q
2. T
3. S
4. R

Solution :

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

According to the question, the arrangement is as follows:



From the above arrangement, S is sitting between Q and P.

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

Question 3 :

Select the option that is related to the third term in the same way as the second term is related to the first term.
Bhubaneswar: Odisha:: Aizawl:?

Difficulty : Moderate

Average Time : 49 Seconds

Options :

1. Mizoram
2. Meghalaya
3. Manipur
4. Tripura

Solution :

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

The logic used here is:



Bhubaneswar: Odisha

Bhubaneswar is the capital of Odisha.

Similarly,

Aizawl:?

Aizawl is the capital of Mizoram.

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

Question 4 :

Select the number from among the given options that can replace the question mark (?) in the following series. 19, 23, 32, 48, 73, ?

Difficulty : Moderate

Average Time : 44 Seconds

Options :

1. 109
2. 108
3. 111
4. 103

Solution :

The correct answer is **option 1** i.e. **109**.

Given series: 19, 23, 32, 48, 73, ?

The series follows this pattern:

$$19 + 2^2 = 23$$

$$23 + 3^2 = 32$$

$$32 + 4^2 = 48$$

$$48 + 5^2 = 73$$

$$73 + 6^2 = 109$$

So, the next term in the series is **109**.

Question 5 :

Study the given pattern carefully and select the number that can replace the question mark (?) in it. 13 26 39 30 42 ? 17 16

15

Difficulty : Moderate

Average Time : 42 Seconds

Options :

1. 40
2. 45
3. 54
4. 60

Solution :

The correct answer is **option 3** i.e. **54**.

The logic used here is:

Column 1: $13 + 17 = 30$

Column 2: $26 + 16 = 42$

Column 3: $39 + 15 = 54$

Question 6 :

In a certain code language, 'ARROW' is written as 'FOOSE' and 'GERM' is written as 'THOR'. How will 'MOWER' be written in that language?

Difficulty : Moderate

Average Time : 41 Seconds

Options :

1. SHORE
2. ROSHE
3. RSEHO
4. HORSE

Solution :

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

The logic used here is:

'ARROW' is written as 'FOOSE'



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A F
R O
R O
O S
W E

'GERM' is written as 'THOR'

G T
E H
R O
M R

Similarly,

Code for the word MOWER:

M R
O S
W E
E H
R O

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

Question 7 :

Select the combination of letters that when sequentially placed in the blanks of the given series will complete the series. C 2 _ X 2 C C _ X X 2 _ C 2 _ X _ C

Difficulty : Moderate

Average Time : 69 Seconds

Options :

1. C2X2X
2. X2CX2
3. AXX2C



XCX2C

Solution :

The correct answer is **option 2** i.e. **X2CX2**.

The sequence is – X2CX2

Given sequence: C 2 _ X 2 C C _ X X 2 _ C 2 _ X _ C

Option 1: C2X2X

C 2 C X 2 C C 2 X X 2 X C 2 2 X X C

Option 1 does not form a particular pattern.

Option 2: X2CX2

C 2 X X 2 C / C 2 X X 2 C / C 2 X X 2 C

Option 2 forms a particular pattern.

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

Question 8 :

Select the letter cluster from among the given options that can replace the question mark (?) in the following series. SKH, PMG, MOF, JQE, ?

Difficulty : Moderate

Average Time : 65 Seconds

Options :

1. GSD
2. SDF
3. GTD
4. HSD

Solution :

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

Given series: SKH, PMG, MOF, JQE, ?

The series follows this pattern:

SKH, PMG



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$$S - 3 = P$$

$$K + 2 = M$$

$$H - 1 = G$$

Similarly;

$$JQE, ?$$

$$J - 3 = G$$

$$Q + 2 = S$$

$$E - 1 = D$$

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

Question 9 :

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 : 53 Seconds

Options :



Solution :



The correct answer is **option 3** .

After unfolding, the paper will appear as follows:



Question 10 :

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 : 65 Seconds

Options :

1. NMP
2. QRS
3. DEF
4. HIJ

Solution :

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

The logic used here is:

1st letter + 1 = 2nd letter

2nd letter + 1 = 3rd letter

Option 1: NMP

N + 1 = O

M + 1 = N

This does not follow the logic.



Hence, **option 1** is the odd one out.

Question 11 :

Eight friends, A, B, C, D, E, F, G, and H, are sitting in a straight line, all facing north. F is sitting between D and G. B is sitting between H and A. E is third to the left of G. G is sitting at one of the corners. H is third to the left of C. Who is sitting between A and E?

Difficulty : Moderate

Average Time : 59 Seconds

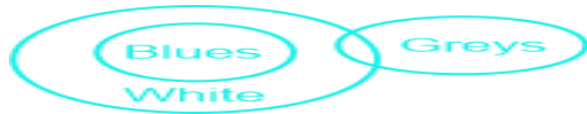
Options :

1. B
2. H
3. D
4. C

Solution :

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

According to the question, the arrangement is as follows:



From the above arrangement, C is sitting between A and E.

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

Question 12 :

2 different positions of the same dice marked with the letters/symbols X, \$, Y,&, Z, and @ are shown. Select the letter/symbol date that will be on the face opposite to the face having the symbol \$.

Difficulty : Moderate

Average Time : 52 Seconds

Options :

1. &
2. Z
3. @
4. X

**Solution :**

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

In two dice, Y and Z are common. So, the rest of the faces are opposite to each other.

So, \$ is opposite to &.

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

Question 13 :

In a certain code language, 'India is my country' means '8573', 'Sam is my friend' means '8634', 'My country' means '73', and 'Team India' means '59'. What number is the code for 'Country'?

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

1. 5

2. 7

3. 8

4. 3

Solution :

The correct answer is **option 2** i.e. **7**.

The logic used here is:

'India is my country' means '8573', 'Sam is my friend' means '8634', 'My country' means '73', and 'Team India' means '59'

Code for the word India = 5

Code for the word is = 8

Code for the word my = 3

Code for the word country = 7

Hence, the code for the word country = 7

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

Question 14 :

'R+S' means 'R is the daughter of S'. 'RS' means 'R is the husband of S'. 'R x S' means 'R is the brother of S'. If 'T x V + Z', then which of the following options is true?



Difficulty : Moderate

Average Time : 62 Seconds

Options :

1. T is the uncle of Z.
2. T is the father of Z.
3. T is the son of Z.
4. T is the brother of Z.

Solution :

The correct answer is **option 3** i.e. **T is the son of Z.**

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, T is the son of Z is true.

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

Question 15 :

Select the correct option that indicates the arrangement of the given words in the order in which they appear in an English dictionary. 1. Prestige 2. Pristine 3. Prescribe 4. Prepaid 5. Premium

Difficulty : Moderate

Average Time : 62 Seconds

Options :

1. 4, 5, 3, 2, 1
2. 5, 3, 4, 1, 2
3. 5, 4, 3, 1, 2
4. 4, 5, 3, 1, 2

Solution :

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



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

1. Premium
2. Prepaid
3. Prescribe
4. Prestige
5. Pristine

Question 16 :

In the following Venn diagram, the circle represents 'vegetables' the triangle represents 'roots' the square represents 'hard soil' and the rectangle represents 'summer'. Which of the following letters represents root vegetables that grow in summer but NOT in hard soil?

Difficulty : Moderate**Average Time : 46 Seconds****Options :**

1. D
2. K
3. E
4. G

Solution :

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

The letter that represents root vegetables that grow in summer but are not in hard soil = Letter that is common to triangles, square and the circle = D

Question 17 :

Select the option that is related to the third term in the same way as the second term is related to the first term. BLOCK: LBPKC:: MARGIN:?

Difficulty : Moderate**Average Time : 42 Seconds****Options :**

1. OHQHBL
2. OHBHQL



OBHQHL

4. OHHQBL

Solution :

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

The logic used here is:

BLOCK: LBPKC

First, reverse the given word.

BLOCK = KCOLB

$K + 1 = L$

$C - 1 = B$

$O + 1 = P$

$L - 1 = K$

$B + 1 = C$

Similarly,

MARGIN:?

MARGIN = NIGRAM

$N + 1 = O$

$I - 1 = H$

$G + 1 = H$

$R - 1 = Q$

$A + 1 = B$

$M - 1 = L$

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

Question 18 :

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

Difficulty : Moderate

Average Time : 55 Seconds

Options :

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



Solution :



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

The given figure is embedded in option 1, as shown below:



Question 19 :

Select the number from among the given options that can replace the question mark (?) in the following series. 24, 40, 64, 104, ?, 312

Difficulty : Moderate

Average Time : 63 Seconds

Options :





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228

2. 176

3. 154

4. 168

Solution :

The correct answer is **option 2** i.e. **176**.

Given series: 24, 40, 64, 104, ?, 312

The series follows this pattern:

$$24 + 16 = 40$$

$$40 + (16 + 8) = 40 + 24 = 64$$

$$64 + (24 + 16) = 64 + 40 = 104$$

$$104 + (40 + 32) = 104 + 72 = 176$$

$$176 + (72 + 64) = 176 + 136 = 312$$

So, the missing term in the series is **176**.

Question 20 :

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

Difficulty : Moderate

Average Time : 40 Seconds

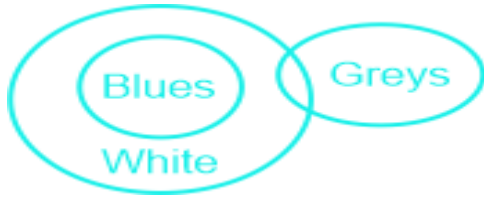
Options :



Solution :

The correct answer is **option 4**

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 4** is the correct answer.

Question 21 :

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

Difficulty : Moderate

Average Time : 73 Seconds

Options :

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



Solution :



The correct answer is **option 3** .

The logic used here is:

1. The square is moving in a clockwise direction from one corner to another and the shaded part inside it is moving to the next place in a clockwise direction.
2. The number of lines is increasing by one and is moving in a clockwise direction.

The series of figures:



Question 22 :

Which of the following Articles of the Constitution of India is related to the promotion of co-operative societies?

Difficulty : Moderate

Average Time : 75 Seconds

Options :

1. 43A
2. 43B
3. 31A
4. 31B

Solution :

The correct answer is **option 2** i.e. **43B**.

Other Information-

- **Article 43B** of the Constitution of India deals with the promotion of co-operative societies.
- It made the right to make co-operative societies a fundamental right (Article 19).
- **Article 43B is included in Part IV of the Constitution.**
- As per Article 43B, the State shall endeavor to promote voluntary formation, autonomous functioning, democratic control and professional management of co-operative societies.

Question 23 :

Which of the following nations was India's top trading partner in the financial year 2019-20?

Difficulty : Moderate

Average Time : 52 Seconds

Options :



China

2. The US

3. Mauritius

4. Japan

Solution :

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

Other Information-

- The US continues to be India's largest trading partner for the second consecutive year in the financial year 2019-20.
- This reflects the growing economic ties between the two countries.
- As per the data, bilateral trade between the US and India has increased from \$87.96 billion in 2018-19 to \$88.75 billion in FY 2019-20.
- Earlier, from 2013-14 to 2017-18, China was India's largest trading partner.

Question 24 :

After the death of Guru Gobind Singh in 1708, the Khalsa revolted against the Mughal authority under the leadership of _____.

Difficulty : Moderate

Average Time : 54 Seconds

Options :

1. Guru Angad
2. Guru Amar Das
3. Banda Bahadur
4. Guru Nanak Dev

Solution :

The correct answer is **option 3** i.e. **Banda Bahadur**.

Other Information-

- After the death of **Guru Gobind Singh** in 1708, the Khalsa revolted against Mughal power under the leadership of Banda Bahadur.
- **Banda Singh Bahadur** was a Sikh warrior and general of the Khalsa army.
- After the death of **Guru Gobind Singh**, the institution of Guruvritti came to an end and the leadership of the Sikhs passed to his disciple Banda Singh Bahadur.

**Question 25 :**

Who among the following founded the newspaper 'Sambad Kaumudi'?

Difficulty : Moderate

Average Time : 53 Seconds

Options :

1. Rash Bihari Bose
2. Raja Ram Mohan Roy
3. Shishir Kumar Ghosh
4. Ishwar Chandra Vidyasagar

Solution :

The correct answer is **option 2** i.e. **Raja Ram Mohan Roy**.

Other Information-

- **Raja Ram Mohan Roy** founded the newspaper '**Samvad Kaumudi**'.
- Raja Rammohun Roy is called the forerunner of the Indian Renaissance and the father of modern India.
- **Samvad Kaumudi** was a Bengali weekly newspaper published from Kolkata by Raja Rammohun Roy in the first half of the 19th century.
- It was published in 1821, it was the first newspaper in an Indian language.

Question 26 :

Which of the following set of countries participated in the Malabar Naval Exercise 2020?

Difficulty : Moderate

Average Time : 56 Seconds

Options :

1. India, Japan and the US
2. India, Israel and the US
3. India, Australia, Israel and the US
4. India, Australia, Japan and the US

Solution :

The correct answer is **option 4** i.e. **India, Australia, Japan and the US**.

Other Information-

- The countries of India, Australia, Japan and the US participated in the Malabar Naval Exercise 2020.



The first ever Malabar exercise was conducted between the Indian and US navies in the Arabian Sea off the Malabar Coast in 1992.

- **In 2015, Japan participated in this naval exercise.**
- Australia participated for the first time in 2007 and again in 2020.
- Malabar 2020 naval exercise will be conducted in two phases in November of this year.
- Indian Navy (IN), US Navy (USN), Japan Maritime Self Defense Force (JMSDF), and Royal Australian Navy (RAN) participated in this 24th edition of Malabar Naval Exercise.

Question 27 :

Divide ₹,12760 into two parts such that when these are invested for 2 and 4 years, respectively, at the rate of 5% per annum simple interest, the amounts received are equal. What is the second part (in ₹,1) invested?

Difficulty : Moderate**Average Time : 75 Seconds****Options :**

1. 1,100
2. 1,500
3. 1,320
4. 1,440

Solution :

The correct answer is **option 3** i.e. **1,320**.

Let the two parts be x and $(2760 - x)$

According to the question,

$$x + (x \times 2 \times 5)/100 = 2760 - x + [(2760 - x) \times 4 \times 5]/100$$

$$(100x + 10x)/100 = (276000 - 100x + 55200 - 20x)/100$$

$$110x = 331200 - 120x$$

$$230x = 331200$$

$$x = 1440$$

Thus, second part = $2760 - 1440 = 1320$

Question 28 :

A 725 m long train passes a tunnel 235 m long in 48 seconds. Find the speed of the train.



Difficulty : Moderate

Average Time : 47 Seconds

Options :

1. 42 km/h
2. 72 km/h
3. 36 km/h
4. 100 km/h

Solution :

The correct answer is **option 2** i.e. **72 km/h**.

Total distance travelled by the train = $725 + 235 = 960$ m

Time taken = 48 seconds

Speed = $960/48 = 20$ m/second which is equal to $20 \times (18/5) = 72$ km/h

Question 29 :

A batsman scored 124 runs which included 6 boundaries and 10 sixes. What percentage of his total score did he make by running between the wickets?

Difficulty : Moderate

Average Time : 43 Seconds

Options :

1. $28 \frac{19}{31}\%$
2. $24 \frac{1}{31}\%$
3. $32 \frac{8}{31}\%$
4. $35 \frac{3}{31}\%$

Solution :

The correct answer is **option 3** i.e. **$32 \frac{8}{31}\%$** .

By hitting 6 boundaries and 10 sixes, the batsman scored $6 \times 4 + 10 \times 6 = 24 + 60 = 84$ runs

Thus, the score he made by running between the wickets = $124 - 84 = 40$ runs

Required percentage = $(40/124) \times 100 = 32 \times \frac{8}{31} \%$

Question 30 :

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The salaries of Ravi and Sumit are in the ratio 4 : 5. If the salary of each is increased by ₹16000 the new ratio becomes 35 : 40. What will be Sumit's increased salary?

Difficulty : Moderate

Average Time : 45 Seconds

Options :

1. ₹126,000
2. ₹136,000
3. ₹116,000
4. ₹11,60,000

Solution :

The correct answer is **option 3** i.e. **16,000**

Let the salary of Ravi and Sumit be $4x$ and $5x$ respectively.

Given, $(4x + 6000)/(5x + 6000) = 35/40$

$$40 \times (4x + 6000) = 35 \times (5x + 6000)$$

$$160x + 240000 = 175x + 210000$$

$$15x = 30000 \quad x = 2000$$

Sumit's increased salary = $5x + 6000 = 10000 + 6000 = 16000$

Question 31 :

The certain sum amounts to ₹19,982.50 in 2.5 years at 12% p.a., interest compounded 10-monthly. The sum (in ₹) is:

Difficulty : Moderate

Average Time : 44 Seconds

Options :

1. 8,500
2. 7,800
3. 8,000
4. 7,500

Solution :



The correct answer is **option 4** i.e. **7,500**

1 year = 12 months

2.5 years = 30 months

If interest is compounded 10-monthly, time = $30/10 = 3$

Rate = $(12/12) \times 10 = 10\%$

$9982.5 = P \times (1 + 10/100)^3$

$9982.5 = P \times (1 + 1/10)^3$

$9982.5 = P \times (11/10)^3$

$P = 9982.5 \times (1000/1331)$

$P = 7500$

Question 32 :

By selling 36 m of jute, a shopkeeper gains an amount equal to the selling price of 12 m of jute. Find the gain percentage.

Difficulty : Moderate

Average Time : 47 Seconds

Options :

1. 50%
2. 40%
3. 45%
4. 55%

Solution :

The correct answer is **option 1** i.e. **50%**

SP of 36m = CP of 36m + SP of 12m

SP of 24m = CP of 36m

$SP/CP = 36/24 = 3/2$

If the CP of 1 m jute is Rs. 2, then it's SP is Rs. 3

So, profit = Re 1

Profit % = $(1/2) \times 100 = 50\%$

Question 33 :

A nine-digit number $89563x87y$ is divisible by 72. What is the value of $7x-3y$?

Difficulty : Moderate**Average Time : 44 Seconds****Options :**

1. 8

2. 5

3. 6

4. 4

Solution :

The correct answer is **option 3** i.e. **6**

The number is $89563x87y$

If it has to be divisible by 72 i.e. 8×9 , it has to be divisible by both 8 and 9.

For $89563x87y$ to be divisible by 8, $87y$ has to be divisible by 8. Thus, $y = 2$

For $89563x872$ to be divisible by 9, $(8 + 9 + 5 + 6 + 3 + x + 8 + 7 + 2)$ must be a multiple of 9.

$$(8 + 9 + 5 + 6 + 3 + x + 8 + 7 + 2) = (48 + x)$$

If $(48 + x)$ is a multiple of 9, $x = 6$.

$$7x - 3y = 7 \times 6 - 3 \times 2$$

$$42 - 6 = 36 = 6$$

Comprehension :

असंख्य संख्याओं का योग एक संख्या है। इस संख्या को 10^n से गुणा करने पर संख्या में n शून्य आते हैं। इस संख्या को 10^n से भाग देने पर संख्या में n शून्य हटते हैं।

असंख्य संख्याओं का गुणनफल एक संख्या है। इस संख्या को 10^n से गुणा करने पर संख्या में n शून्य आते हैं। इस संख्या को 10^n से भाग देने पर संख्या में n शून्य हटते हैं।

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असंख्य संख्याओं का गुणनफल एक संख्या है। इस संख्या को 10^n से गुणा करने पर संख्या में n शून्य आते हैं। इस संख्या को 10^n से भाग देने पर संख्या में n शून्य हटते हैं।

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When a number is multiplied by 25, it becomes 100 times greater. If a number is multiplied by 25, it becomes 100 times greater. If a number is multiplied by 25, it becomes 100 times greater. If a number is multiplied by 25, it becomes 100 times greater.

Question 34 :

When a number is multiplied by 25, it becomes 100 times greater. If a number is multiplied by 25, it becomes 100 times greater. If a number is multiplied by 25, it becomes 100 times greater. If a number is multiplied by 25, it becomes 100 times greater.

Difficulty : Moderate

Average Time : 55 Seconds

Options :

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

Solution :

When a number is multiplied by 25, it becomes 100 times greater. If a number is multiplied by 25, it becomes 100 times greater.

When a number is multiplied by 25, it becomes 100 times greater. If a number is multiplied by 25, it becomes 100 times greater. If a number is multiplied by 25, it becomes 100 times greater. If a number is multiplied by 25, it becomes 100 times greater.

Comprehension :

When a number is multiplied by 25, it becomes 100 times greater. If a number is multiplied by 25, it becomes 100 times greater. If a number is multiplied by 25, it becomes 100 times greater. If a number is multiplied by 25, it becomes 100 times greater.

The correct answer is **option 4** i.e. **24**

Speed = Distance Travelled/Time taken

$$\text{Speed} = 1600/4 \times 60 = 40/6 \text{ m/sec}$$

$$40/6 \text{ m/sec} = (40/6) \times (18/5) \text{ km/h} = 8 \times 3 \text{ km/h} = 24 \text{ km/h}$$

Question 37 :

A loss of $10\frac{1}{2}\%$ gets converted into a profit of $11\frac{3}{5}\%$ when the selling price is increased by ₹1132.60. The cost price (in ₹) of the article is:

Difficulty : Moderate

Average Time : 40 Seconds

Options :

1. 750
2. 800
3. 600
4. 500

Solution :

The correct answer is **option 3** i.e. **600**

Let the cost price be $100x$

$$\text{Selling Price for first case} = 100x - 100x \times (21/200) = 89.5x$$

$$\text{Selling Price for second case} = 100x + 100x \times (58/500) = 111.6x$$

According to the question,

$$111.6x - 89.5x = 132.6$$

$$22.1x = 132.6$$

$$x = 132.6/22.1$$

$$x = 6$$

$$\text{So, the cost price} = 100 \times 6 = 600$$

Question 38 :

P, Q and R can complete a work in 10 days, 20 days and 30 days, respectively, working alone. How soon can the work be completed if P is assisted by Q and R on alternate days?

**Difficulty : Moderate****Average Time : 52 Seconds****Options :**

1. $7\frac{1}{17}$ days
2. 9 days
3. 5 days
4. $6\frac{1}{2}$ Days

Solution :

The correct answer is **option 1** i.e. **7 1/17 days**.

Let the amount of work to be done = 60 units

P's one day work = 6 units

Q's one day work = 3 units

R's one day work = 2 units

If Q and R assist P on alternate days, then the amount of work done in 2 days

$$= 2 \times 6 + 3 + 2 = 17 \text{ units}$$

Thus, 60 units will be completed in $2 \times (60/17) = 7 \times (1/17)$ days

Question 39 :

The number of students in class 9th and class 10th is 42 and 45, respectively. The ratio of the number of boys to girls in class 9th and 10th is 9 : 5 and 8 : 7, respectively. What is the difference between the total number of boys and the total number of girls in both the classes taken together

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

1. 11
2. 12
3. 17
4. 15

Solution :

The correct answer is **option 4** i.e. **15**.



If the ratio of boys and girls in class 9th is 9 : 5

Then, the number of boys = $(9/14) \times 42 = 27$

And, the number of girls = $(5/14) \times 42 = 15$

If the ratio of boys and girls in class 10th is 8 : 7

Then, the number of boys = $(8/15) \times 45 = 24$

And, the number of girls = $(7/15) \times 45 = 21$

Number of boys in both classes = $27 + 24 = 51$

Number of girls in both classes = $15 + 21 = 36$

Difference = $51 - 36 = 15$

Question 40 :

Anu is four times as good as Binni in completing a task. Together they finish the same task in 7 hours. In how many hours will Anu alone complete the task?

Difficulty : Moderate**Average Time : 56 Seconds****Options :**

1. 22
2. $35/4$
3. $31/4$
4. 24

Solution :

The correct answer is **option 2** i.e. $35/4$

Let Binni do x units an hour, then Anu does $4x$ units an hour.

Given, $x + 4x = 1/7$

$$5x = 1/7 \quad x = 1/35$$

If Anu does $4x$ units an hour, then she will complete $4/35$ units of work in an hour.

Thus, she will complete the whole work in $35/4$ hours.

Question 41 :

The greatest number that will divide 398, 437, and 5425 leaving 7, 12, and 2 as remainders, respectively, is



Difficulty : Moderate

Average Time : 45 Seconds

Options :

1. 11
2. 15
3. 17
4. 19

Solution :

The correct answer is **option 3** i.e. 17

Subtracting the remainder from the numbers, we get

$$398 - 7 = 391$$

$$437 - 12 = 425$$

$$5425 - 2 = 5423$$

Now,

$$391 = 17 \times 23$$

$$425 = 17 \times 5^2$$

$$5425 = 17 \times 11 \times 19$$

So, HCF of these numbers is 17

Question 42 :

The ratio of A's and B's salary is 6 : 7. If B's salary is increased by $5\frac{1}{2}\%$, then his total salary becomes Rs. 1,47,700. The salary (in Rs.) of A is:

Difficulty : Moderate

Average Time : 46 Seconds

Options :

1. 1,10,000
2. 1,20,000
3. 1,40,000
4. 1,35,000

**Solution :**

The correct answer is **option 2** i.e. **1,20,000**.

Let the initial salary of B be $100x$

then when increased by 5.5%, salary becomes $105.5x$

$$105.5x = \text{Rs.}147700$$

$$100x = 147700/105.5 \times 100 = \text{Rs.} 140000$$

Now as the salaries of A and B are in ratio 6 : 7

$$\text{Salary of B} = 7 \text{ units} = \text{Rs.} 140000$$

$$\text{Salary of A} = 6 \text{ units} = 140000/7 \times 6 = \text{Rs.} 120000$$

Question 43 :

The average of 10 observations is 46. It was realised later than an observation was misread as 42 in place of 142. The correct average is:

Difficulty : Moderate

Average Time : 49 Seconds

Options :

1. 52

2. 46

3. 58

4. 56

Solution :

The correct answer is **option 4** i.e. **56**

Sum of all the observations = 460

The correct sum will be = $460 - 42 + 142 = 560$

The correct average = $560/10 = 56$

Question 44 :

If the average of two numbers is 13 and the square root of their product is 12, then the difference between the numbers is:

Difficulty : Moderate

Average Time : 37 Seconds

Options :



10

2. 18

3. 8

4. 12

Solution :

The correct answer is **option 1** i.e. **10**

Let the two numbers a and b

Given, $(a + b)/2 = 13$

$$a + b = 26$$

Also, $(ab)^{1/2} = 12$

$$ab = 144$$

We know, $(a - b)^2 = (a + b)^2 - 4ab$

$$(a - b)^2 = 26^2 - 4 \times 144$$

$$(a - b)^2 = 676 - 576$$

$$(a - b)^2 = 100$$

$$(a - b) = 10$$

Question 45 :

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

31: 90:: 43:?

Difficulty : Moderate

Average Time : 56 Seconds

Options :

1. 130

2. 125

3. 102

4. 75

Solution :

The correct answer is **option 3** i.e. **102**.

The logic used here is:

31: 90

$31 + 59 = 90$

Similarly,

43:?

$43 + 59 = 102$

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

Question 46 :

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: All blues are whites. Some whites are greys. Conclusions: I. All greys are whites. II. All greys are blues.

Difficulty : Moderate

Average Time : 50 Seconds

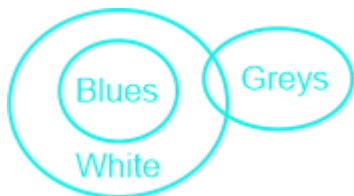
Options :

1. Neither conclusion I nor conclusion II follows
2. Only conclusion I follows
3. Only conclusion II follows
4. Both the conclusions follow

Solution :

The correct answer is **option 1** i.e. **Neither conclusion I nor conclusion II follows**.

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

**Conclusions:**

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



II. All greys are blues **False** (It is possible, but no definite conclusion can be drawn).

Hence, **Neither conclusion I nor conclusion II follows.**

Question 47 :

When a number is added to its multiple of 5 and its square, the sum of these three numbers is 91. Find the number.

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

1. 9
2. 11
3. 7
4. 6

Solution :

The correct answer is **option 3** i.e. **7**.

Let the number be a.

According to the question;

$$a + 5a + a^2 = 91$$

$$6a + a^2 = 91$$

$$a^2 + 6a - 91 = 0$$

$$a^2 + 13a - 7a - 91 = 0$$

$$a(a + 13) - 7(a + 13) = 0$$

$$(a + 13)(a - 7) = 0$$

$$a = -13, 7$$

Out of the options, 7 is present. So, the number is 7.

Question 48 :

In a certain code language, 'CIRCLE' is written as 'DLWAHY'. How will 'SQUARE' be written in that language?

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



TTPNKY

2. TNZYVY

3. TTZYNY

4. TNPYVY

Solution :

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

The logic used here is:

'CIRCLE' is written as 'DLWAHY'

$$C + 1 = D$$

$$I + 3 = L$$

$$R + 5 = W$$

$$C - 2 = A$$

$$L - 4 = H$$

$$E - 6 = Y$$

Similarly,

Code for the word SQUARE:

$$S + 1 = T$$

$$Q + 3 = T$$

$$U + 5 = Z$$

$$A - 2 = Y$$

$$R - 4 = N$$

$$E - 6 = Y$$

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

Question 49 :

In an imaginary mathematical system, the symbol '-' stands for addition, the symbol '+' stands for division, the symbol 'x' stands for subtraction, and the symbol '÷' stands for multiplication. All other rules of mathematics are the same as in the existing system. What is the value of the following expression? $240 \times 72 + 8 \div 24 - 6$



Difficulty : Moderate

Average Time : 66 Seconds

Options :

1. 30

2. 36

3. 26

4. 19

Solution :

The correct answer is **option 1** i.e. **30**.

Given equation: $240 \times 72 + 8 \div 24 - 6$

Given conditions:

- +

+ ÷

× -

÷ ×

After replacing the expression becomes:

$$= 240 - 72 \div 8 \times 24 + 6$$

$$= 240 - 9 \times 24 + 6$$

$$= 240 - 216 + 6$$

$$= 30$$

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

Question 50 :

Sarayu river is a tributary of which river?

Difficulty : Moderate

Average Time : 48 Seconds

Options :

1. Pindar

2. Bhagirathi



Tons

4. Sharda

Solution :

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

Other Information-

- The **Saryu River** is a tributary of the **Sharda River**.
- The **Saryu River** is a river originating in the Himalayas and flowing in the Ganga plain of northern India, which joins the Ganges between Ballia and Chhapra.
- **Sharda canal** has been taken out on Saryu river by making a dam near Tanakpur in Uttarakhand.
- **Sharda River, also known as Mahakali, Kaliganga or Kali.**
- It is a river flowing in the states of Uttarakhand and Uttar Pradesh of India.

Question 51 :

On 26 January 2019, the Constitution of India completed 69 years of its existence. In these years, it was amended _____ times (as on 12 January 2019).

Difficulty : Moderate

Average Time : 61 Seconds

Options :

1. 100
2. 103
3. 109
4. 106

Solution :

The correct answer is **option 2** i.e. **103**.

Other Information-

- On 26 January 2019, the Constitution of India completed 69 years of its existence. Over the years, it has been amended 103 times (as of 12 January 2019).
- In 1950, the Constitution of India was implemented by removing the Government of India Act (1935).
- The 103rd Amendment to the Constitution of India is officially known as the Constitution (103rd Amendment) Act, 2019.
- On 8 January 2019, The Constitution (103rd Amendment) Bill, 2019 was introduced in the Lok Sabha.
- On 14 January 2019, the 103rd amendment came into force.

**Question 52 :**

Which year marks the beginning of phase 2 of the Swachh Bharat Mission (Grameen)?

Difficulty : Moderate

Average Time : 53 Seconds

Options :

1. 2020-21
2. 2019-20
3. 2018-19
4. 2021-22

Solution :

The correct answer is **option 1** i.e. **2020-21**.

Other Information-

- Phase 2 of the **Swachh Bharat Mission (Gramin)** started in the year 2020-21.
- The **Swachh Bharat Mission (Gramin)** will be implemented as a Mission with a total outlay of Rs 1,40,881 crore for the period from 2020-21 to 2024-25.
- Out of Rs 1,40,881 crore allocated by the government for this programme, Rs 52,497 crore will be allocated from the budget of the Department of Drinking Water and Sanitation.
- Under this programme, with a focus on ODF Plus, the Open Defecation Free campaign will be continued and solid and liquid waste management will also be promoted.
- The solid and liquid waste management will be monitored on the basis of the following four indicators-
 - plastic waste management
 - Biodegradable Solid Waste Management (Including Animal Waste Management)
 - gray water management
 - fecal sludge management

Question 53 :

Who among the following represents India in archery?

Difficulty : Moderate

Average Time : 71 Seconds

Options :

1. Deepika Kumari
2. Soumyajit Ghosh



Neeraj Chopra

4. Manika Batra

Solution :

The correct answer is **option 1** i.e. Deepika Kumari.

Other Information-

- Deepika Kumari represents India in archery.
- She has so far represented India in 2012 London Olympics and 2016 Rio Olympics.
- Deepika won the gold medal in the singles event at the 2006 World Championships held in Mexico.
- The journey started from here earned him the title of world's number one archer.

Question 54 :

_____ represents the high point of an eclectic art, which, in the 7th and 8th centuries under the Chalukya dynasty, achieved a harmonious blend of architectural forms from northern and southern India.

Difficulty : Moderate

Average Time : 53 Seconds

Options :

1. Kochi
2. Pattadakal
3. Konark
4. Bhimbetka

Solution :

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

Other Information -

- Pattadakal represents the high point of an eclectic art which, under the Chalukya dynasty in the 7th and 8th centuries, received a harmonious blend of architectural forms from northern and southern India.
- The Chalukya dynasty was an Indian royal dynasty that ruled large parts of southern and central India between the 6th and 12th centuries.
- Pattadakal is a testament to the architectural prowess of the Chalukya dynasty.
- Pattadakal has 10 major temples, all dedicated to Lord Shiva. The temples have elements of South Indian (Dravidian) and North Indian (City) styles of architecture.

Question 55 :

_____ is known as viticulture.



Difficulty : Moderate

Average Time : 57 Seconds

Options :

1. growing vegetables, flowers and fruits
2. cultivation of grapes
3. breeding of fish
4. rearing of silkworms

Solution :

The correct answer is **option 2** i.e. **cultivation of grapes**.

Other Information-

- **Viticulture is the cultivation of grapes.**
- Grapes Crop productivity of grapes in India is the highest in the whole world.
- Grapes are a strengthening and beautifying fruit, therefore grapes are considered best among fruits.
- Viticulture refers to the study and cultivation of grapes for wine production or for consumption.
- Viticulture encompasses all the agricultural studies, efforts and activities involved in the cultivation of grapes until the day of harvest.

Question 56 :

Who among the following is best known for his plays 'Yayati' and 'Tughlaq'?

Difficulty : Moderate

Average Time : 57 Seconds

Options :

1. Viju Khote
2. Shreeram Lagoo
3. Girish Karnad
4. Mohammed Zahur Khayyam

Solution :

The correct answer is **option 3** i.e. **Girish Karnad**.


Other Information-

- **Girish Karnad is known for his plays 'Yayati' and 'Tughlaq'.**
- He wrote his first play 'Yayati' in 1961 at the age of 23 when he was studying at Oxford.



- He was a well-known contemporary writer, actor, film director and playwright of India.
- He wrote his first play 'Yayati' in Kannada language in 1961. Which was translated into Hindi by B.R. Narayan has done.
 - Girish Karnad has taken the plot of the play 'Yayati' from a mythological background.
 - **Tughlaq** was such a drama of his, whose writing-publication and multilingual translations-performances earned him a reputation as a dramatist at the national and later international level.
 - He received the Jnanpith Award for Kannada, the highest literary honor in India.

Question 57 :

Faqir Chand Kohli, who passed away in November 2020, was known as the '_____'.


Difficulty : Moderate

Average Time : 71 Seconds

Options :

1. Father of Indian Civil Services
2. Father of Indian Space Programme
3. Father of Indian Prehistory
4. Father of Indian Software (IT) Industry

Solution :

The correct answer is **option 4** i.e. **Father of Indian Software (IT) Industry**.

Other Information-

- **Fakir Chand Kohli**, who passed away in November 2020, was known as the '**Father of the Indian Software (IT) Industry**'.
- Fakir Chand Kohli is called the father of software industry in India.
- **He was the first CEO of Tata Consultancy Services ie TCS.**
- Fakirchand Kohli was awarded the Padma Bhushan in the year 2002 by the Government of India in the field of science and engineering.

Question 58 :

In a molecule of water, the ratio of the mass of hydrogen to that of oxygen is:

Difficulty : Moderate

Average Time : 60 Seconds

Options :

1. 1 : 8
2. 1 : 4

1 : 2

4. 1 : 16

Solution :

The correct answer is **option 1** i.e. **1 : 8**.

Other Information-

- A molecule of water has a 1:8 ratio by mass of hydrogen and oxygen:
- Hydrogen has atomic number 1, sign (H) and atomic weight 1.008.
- The atomic mass of hydrogen is 1.
- The atomic number of oxygen is 8, and the sign is (O).
- The atomic mass of oxygen is 15.999.

Question 59 :

Union Minister of Education launched a free mobile app called _____ , on 5 September 2020.

Difficulty : Moderate

Average Time : 46 Seconds

Options :

1. EnglishPro
2. Beelinguapp
3. Duolingo
4. Hello Talk

Solution :

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

Other Information-

- The **Union Education Minister** launched a free mobile app named **EnglishPro** on 5th September 2020.
- This app will help learners develop Indian English pronunciation in a uniquely "Indian" way.
- This mobile application has been developed by the Hyderabad-based Institute of English and Foreign Languages under University Social Responsibility (USR).
- The app will be "a useful digital tool" for teachers, students and people from different backgrounds, acting as an educational resource.

Question 60 :

particles are doubly charged ions of _____.



Difficulty : Moderate

Average Time : 55 Seconds

Options :

1. lithium
2. beryllium
3. helium
4. hydrogen

Solution :

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

Other Information-

- **particles are doubly charged ions of helium.**
- They are made up of two protons and two neutrons.
- In radioactivity these particles are emitted from the nucleus.
- **The mass of an alpha particle is 4u.**
- Helium is a chemical element that usually exists in the gaseous state. The number is 2.

Question 61 :

Which of the following institutions started the 'Team Halo' initiative in November 2020?

Difficulty : Moderate

Average Time : 50 Seconds

Options :

1. World Bank
2. United Nations
3. World Health Organization
4. World Trade Organization

Solution :

The correct answer is **option 2** i.e. **United Nations**.

Question 62 :

With which of the following sports would you associate the team 'Kerala Blasters'?

Difficulty : Moderate

Average Time : 33 Seconds



Options :

1. Football
2. Badminton
3. Kabaddi
4. Cricket

Solution :

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

Question 63 :

Which of the following is the traditional bamboo dance of the Mizos?

Difficulty : Moderate

Average Time : 31 Seconds

Options :

1. Moyashai
2. Udoho
3. Cheraw
4. Aaluyattu

Solution :

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

Other Information-

- **Cherav is the traditional bamboo dance of the people of Mizoram.**
- In which the men keep the bamboo close to the floor and open and close the sticks to the beat of the music. Women in colorful costumes dance on top, stepping in and out of the bamboo to the music.
- **Mizoram is a north eastern state of India.** In 2001, the population here was about 8,90,000. **The capital here is Aizawl.**

Question 64 :

The Third Battle of Panipat between the Marathas and Ahmad Shah Durrani , the ruler of Afghanistan was fought in the year:

Difficulty : Moderate

Average Time : 56 Seconds

Options :



1781

2. 1851

3. 1761

4. 1831

Solution :

The correct answer is **option 3** i.e. **1761**.

other Information-

- The Third **Battle of Panipat** was fought in 1761 between the Marathas and Ahmad Shah Durrani, the ruler of Afghanistan:
- The third battle of Panipat took place between Ahmad Shah Abdali and Maratha general Sadashiv Rao Bhau on 14 January 1761 in the present day Panipat field.
- Ahmed Shah Durrani who was the founder of the Durrani Empire and became the Sultan of the state in 1747.
- At that time Sadashiv Rao Bhau who was the hero of the battle of Panipat.
- **Ahmed Shah Abdali won in this.**

Question 65 :

In November 2020, the Board of Control for Cricket in India (BCCI) announced _____ as Team India's kit sponsor till 2023.

Difficulty : Moderate

Average Time : 59 Seconds

Options :

1. Byju's
2. Nike
3. MPL Sports
4. Oppo

Solution :

The correct answer is **option 3** i.e. **MPL Sports**.

Other Information-

- In November 2020, the **Board of Control for Cricket in India (BCCI)** announced MPL Sports as the kit sponsor of Team India till 2023.
- This was announced by **BCCI President Sourav Ganguly**.
- The Board of Control for Cricket in India (BCCI) is the national governing body for cricket in India.



The **Board was constituted in December 1928 as a society**, registered under the Tamil Nadu Societies Registration Act.

- **Mobile Premier League** is a mobile e-sports platform based in India. It is operated by Bangalore based Galactus Funware Technology Pvt Ltd.
- It was launched in September 2018 and as of April 2019, it claims to have a user base of over 25 million.

Question 66 :

Raja Todar Mal was the Revenue Minister during the reign of which of the following Mughal emperors?

Difficulty : Moderate

Average Time : 68 Seconds

Options :

1. Humayun
2. Shah Jahan
3. Jahangir
4. Akbar

Solution :

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

Other Information-

- **Raja Todar Mal** was the revenue minister during the reign of **Akbar** Mughal emperors.
- Akbar was the only ruler among the Mughal emperors, who established the Din-e-Ilahi religion to remove the sourness between Hindus and Muslims.
- Raja Todermal was the revenue and finance minister of Akbar.
- He had prepared the world's first measurement system for land measurement.

Question 67 :

As per calculations done in 2011-2012, the poverty line for a person of rural India got fixed at ____ per month.

Difficulty : Moderate

Average Time : 53 Seconds

Options :

1. ₹1816
2. ₹1752
3. ₹11,000
4. ₹1687

Solution :

The correct answer is **option 1** i.e. ₹,1816.

Other Information-

- In the year 2011-12, the poverty line of a person for rural areas was fixed at Rs.816.
- In 2011-2012 city poverty line of one person has been fixed at Rs.1000.
- In 2011-12, the number of people living below the poverty line in the country was estimated at 270 million.
- Poverty in rural areas was 26.3 percent in 2011, which decreased from 14.7 percent to 11.6 percent by 2019.

Question 68 :

Five rivers from Punjab (India) enter the river _____ at Mithankot in Pakistan.

Difficulty : Moderate

Average Time : 50 Seconds

Options :

1. Indus
2. Yamuna
3. Ganga
4. Brahmaputra

Solution :

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

Other Information-

- Five rivers from Punjab (India) enter the Indus River at Mithankot, Pakistan.
- The Indus river system is one of the largest river basins in the world with a total length of 2,880 km (1,114 km in India).
- Indus is also known as Sindhu.
- Indus River is one of the longest rivers in Asia. It flows through Pakistan, India (Ladakh) and China (Western Tibet).

Question 69 :

_____ is a simple device that is used to either break the electric circuit, or to complete it.

Difficulty : Moderate

Average Time : 53 Seconds

Options :

1. Transistor
2. Switch



Capacitor

4. Resistor

Solution :

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

Other Information -

- Switch is a simple device used either to disconnect an electrical circuit or to complete it.
- Switches are of several types depending on the function - from the smallest to the smallest size, to industrial plant switches that can handle millions of kilowatts of power.
- The switch directly connects to the source and destination, so that the speed of the network is seen to increase significantly.
- Switch is used to connect or disconnect the electrical circuit at will.

Question 70 :

The perimeter of an equilateral triangle is 363 cm. Find its height.

Difficulty : Moderate

Average Time : 57 Seconds

Options :

1. 18 cm
2. 9 cm
3. 10 cm
4. 6 cm

Solution :

The correct answer is **option 1** i.e. **18cm**

Perimeter = 363

Side of the triangle = 123

Height of an equilateral triangle = $(\frac{3}{2}) \times a$

Thus, height = $(123 \times \frac{3}{2}) / 2 = 6 \times 3 = 18$

Question 71 :

A chair is sold for ₹1720 after giving a discount of 10% on its marked price. The cost price of the chair is ₹1640. If it is sold at the marked price, then the profit percentage will be:



Difficulty : Moderate

Average Time : 46 Seconds

Options :

1. 30%
2. 20%
3. 18%
4. 25%

Solution :

The correct answer is **option 4** i.e. **25%**

After a discount of 10% on the Marked Price, the chair is sold for Rs. 720

Thus, the Marked Price = $(100/90) \times 720 = \text{Rs. } 800$

The cost Price is Rs. 640

If the selling price = Marked Price

Then, profit percentage = $[(800 - 640)/640]/100 = [160/640]/100 = 100/4 = 25\%$

Question 72 :

What is 12% of 4% of 7% of 2×10^6 ?

Difficulty : Moderate

Average Time : 41 Seconds

Options :

1. 386
2. 583
3. 672
4. 121

Solution :

The correct answer is **option 3** i.e. **672**

12% of 4% of 7% of $2 \times 10^6 = (12/100) \times (4/100) \times (7/100) \times 2 \times 10^6$

$12 \times 4 \times 7 \times 2 = 48 \times 14 = 672$

Question 73 :

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A solid metallic rectangular block of dimensions $112\text{cm} \times 44\text{cm} \times 25\text{cm}$ is melted and recast into a cylinder of radius 35 cm. The curved surface area (in cm^2) of the cylinder is: (Take $\pi = 22/7$)

Difficulty : Moderate

Average Time : 44 Seconds

Options :

1. 7260
2. 6600
3. 7040
4. 6160

Solution :

The correct answer is **option 3** i.e. **7040**

The volume of a cuboid = $l \times b \times h$

The volume of a cylinder = $\pi r^2 \times h$

The curved surface area of a cylinder = $2 \pi r \times h$

According to the question,

$$l \times b \times h = \pi r^2 \times h$$

$$112 \times 44 \times 25 = (22/7) \times 35 \times 35 \times h$$

$$h = (112 \times 44 \times 25) / [(22/7) \times 35 \times 35]$$

$$h = 32$$

So, the height of the cylinder = 32 cm

Curved Surface area of cylinder = $2 \pi r \times h$

$$\text{Curved Surface area of cylinder} = 2 \times (22/7) \times 35 \times 32 = 44 \times 160 = 7040 \text{ cm}^2$$

Question 74 :

The value of $3 \times 7 + 5 - 6 \div 3 - 9 + 45 \div 5 \times 4 - 45$ is:

Difficulty : Moderate

Average Time : 69 Seconds

Options :

1. 9



6

3. 7

4. 36

Solution :

The correct answer is **option 2** i.e. **6**

$$3 \times 7 + 5 - 6 \div 3 - 9 + 45 \div 5 \times 4 - 45$$

$$21 + 5 - 2 - 9 + 9 \times 4 - 45$$

$$26 - 11 + 36 - 45$$

$$62 - 54 = 6$$

Question 75 :

A TV was available for Rs. 14,500. The price came down to Rs. 11,890 during the Diwali sale. What is the percentage discount?

Difficulty : Moderate

Average Time : 39 Seconds

Options :

1. 19.56%

2. 19%

3. 18%

4. 17.6%

Solution :

The correct answer is **option 3** i.e. **18%**

Price after discount = Rs. 11,890

Discount = Rs. 14,500 - Rs. 11,890 =

Discount % = $(2610/14500) \times 100 = 18\%$

Question 76 :

A shopkeeper sold an article at a gain of 20%. Had he bought it for 20% less than the original cost and sold it for ₹110 less, he would have gained 25%. Then the cost price of the article is:

**Difficulty : Moderate****Average Time : 42 Seconds****Options :**

1. ₹150
2. ₹140
3. ₹160
4. ₹145

Solution :

The correct answer is **option 1** i.e. ₹150

Let the cost price of the article be $100x$

Thus, the Selling price will be $120x$

Had he bought it for 20% less, the cost price would have been $80x$

And, if the selling price would have been Rs. 10, the profit would have been 25%.

So, $120x - 10 = (125/100) \times 80x$

$$120x - 10 = 100x$$

$$20x = 10 \quad x = 1/2$$

Thus, cost price will be $100 \times (1/2) = \text{Rs. } 50$

Question 77 :

A certain sum amounts to ₹13200 after 4 years and to ₹16400 after 8 years at the same rate percent p.a. Add to simple interest. The simple interest (in ₹) on the same sum at 10% p.a. for $3 \frac{1}{5}$ years will be:

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

1. 4000
2. 3200
3. 2500
4. 3500

Solution :

21. $\frac{1}{2}$ of a number is 21. What is the number?
 22. A number is 10 less than another number. If the sum of the two numbers is 50, what is the smaller number?
 23. The sum of two numbers is 100. One number is 20 more than the other. What is the smaller number?
 24. A number is 15 more than another number. If the difference between the two numbers is 30, what is the smaller number?

Difficulty : Moderate

Average Time : 35 Seconds

Options :

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

Solution :

21. Let the number be x . Then, $\frac{1}{2}x = 21$.
 $x = 21 \times 2 = 42$.
 22. Let the smaller number be x . Then, the larger number is $x + 10$.
 $x + (x + 10) = 50$
 $2x + 10 = 50$
 $2x = 50 - 10 = 40$
 $x = \frac{40}{2} = 20$.
 23. Let the smaller number be x . Then, the larger number is $x + 20$.
 $x + (x + 20) = 100$
 $2x + 20 = 100$
 $2x = 100 - 20 = 80$
 $x = \frac{80}{2} = 40$.
 24. Let the smaller number be x . Then, the larger number is $x + 15$.
 $(x + 15) - x = 30$
 $15 = 30$. This is a contradiction, so there is no solution for this problem.

Question 81 :

20. A number is 10 more than another number. If the sum of the two numbers is 50, what is the smaller number?
 21. The sum of two numbers is 100. One number is 20 more than the other. What is the smaller number?
 22. A number is 15 more than another number. If the difference between the two numbers is 30, what is the smaller number?
 23. A number is 10 less than another number. If the sum of the two numbers is 50, what is the smaller number?
 24. The sum of two numbers is 100. One number is 20 more than the other. What is the smaller number?

Difficulty : Moderate

Average Time : 28 Seconds

Options :

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

Solution :

$2x + 3y = 11$... $2x + 3y = 11$... $2x + 3y = 11$... $2x + 3y = 11$... $2x + 3y = 11$...

$2x + 3y = 11$... $2x + 3y = 11$... $2x + 3y = 11$... $2x + 3y = 11$... $2x + 3y = 11$...

$2x + 3y = 11$... $2x + 3y = 11$... $2x + 3y = 11$... $2x + 3y = 11$... $2x + 3y = 11$...

Question 82 :

The first two terms of an A.P. are 19 and 16. The sum of the first n terms is 130. The value of n is

Difficulty : Moderate

Average Time : 29 Seconds

Options :

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

Solution :

Let a and d be the first term and common difference respectively.

$a + 2d = 16$... $a + 2d = 16$... $a + 2d = 16$... $a + 2d = 16$... $a + 2d = 16$...

Question 83 :

The first two terms of an A.P. are 18 and 15. The sum of the first n terms is 150. The value of n is



Difficulty : Moderate

Average Time : 31 Seconds

Options :

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

Solution :

Let's assume the number of students is x . Then, the number of instructors is $30 + x$. The total hours of videos is $10000 + 30x + x^2$. We are given that the number of students is 5 lakh, so $x = 50000$. Substituting this value, we get the total hours of videos as $10000 + 30(50000) + (50000)^2 = 2500000000$ hours.

Question 84 :

Let's assume the number of students is x . Then, the number of instructors is $30 + x$. The total hours of videos is $10000 + 30x + x^2$. We are given that the number of students is 5 lakh, so $x = 50000$. Substituting this value, we get the total hours of videos as $10000 + 30(50000) + (50000)^2 = 2500000000$ hours.

Difficulty : Moderate

Average Time : 30 Seconds

Options :

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

Solution :

Let's assume the number of students is x . Then, the number of instructors is $30 + x$. The total hours of videos is $10000 + 30x + x^2$. We are given that the number of students is 5 lakh, so $x = 50000$. Substituting this value, we get the total hours of videos as $10000 + 30(50000) + (50000)^2 = 2500000000$ hours.

Options :

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

Solution :

...

...

...

Question 87 :

...

Difficulty : Moderate

Average Time : 29 Seconds

Options :

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

Solution :

10. The value of $\sin^{-1}(\sin \frac{2\pi}{3})$ is $\frac{2\pi}{3}$.
11. The value of $\sin^{-1}(\sin \frac{5\pi}{6})$ is $\frac{5\pi}{6}$.
12. The value of $\sin^{-1}(\sin \frac{7\pi}{6})$ is $-\frac{7\pi}{6}$.
13. The value of $\sin^{-1}(\sin \frac{11\pi}{6})$ is $-\frac{11\pi}{6}$.

Difficulty : Moderate

Average Time : 29 Seconds

Options :

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

Solution :

10. $\sin^{-1}(\sin \frac{2\pi}{3}) = \frac{2\pi}{3}$

11. $\sin^{-1}(\sin \frac{5\pi}{6}) = \frac{5\pi}{6}$

12. $\sin^{-1}(\sin \frac{7\pi}{6}) = -\frac{7\pi}{6}$

Question 92 :

9. The value of $\sin^{-1}(\sin \frac{3\pi}{4})$ is $\frac{3\pi}{4}$.
10. The value of $\sin^{-1}(\sin \frac{5\pi}{4})$ is $-\frac{5\pi}{4}$.
11. The value of $\sin^{-1}(\sin \frac{7\pi}{4})$ is $-\frac{7\pi}{4}$.
12. The value of $\sin^{-1}(\sin \frac{11\pi}{4})$ is $-\frac{11\pi}{4}$.

Difficulty : Moderate

Average Time : 29 Seconds

Options :

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

Solution :

9. $\sin^{-1}(\sin \frac{3\pi}{4}) = \frac{3\pi}{4}$

àµ, àµ(àµ"àµ†

àµ—àµ¹àµ"àµ† àµ—àµ"àµ³/àµ"àµ† àµ•àµ† àµ²àµ¿àµ• àµ àµ§àµ¿àµ•àµµàµ° 22 àµ•àµ³/ àµ†àµ, àµ•àµµàµ†àµ®àµ³/àµ² àµ¹àµ(àµµàµ³/ àµ¹àµ

Question 95 :

'àµµàµ¹ àµ—àµ³/àµµ àµœàµ(àµœàµ" àµ, àµ³/àµ§àµ³/àµ°àµ‡ àµ®àµ†àµ, àµ§àµ²àµµàµ†àµ€ àµ† àµ°àµ¹àµ€ àµ¹àµ" àµ†àµ, àµµàµ³/àµ•àµ•àµ"àµ³/àµ, àµ¶ àµ•àµ† àµ²àµ¿àµ• àµ•àµ• àµ, àµ³/àµ°àµ•àµ†àµ• àµ¶àµ—àµ•àµ! àµ!àµ€àµœàµ¿àµ¿àµ•àµ†

Difficulty : Moderate

Average Time : 29 Seconds

Options :

1. àµ•àµ¿àµ, àµµàµ!àµ, àµµàµ€
2. àµ•àµ, àµ²àµ®àµ, àµ¿àµ, àµ•
3. àµ•àµ²àµ(àµ²-àµ•àµ²àµ•àµ²àµ¿àµ¿àµµ
4. àµ•àµ¿àµ, àµ•àµ°àµ•àµµàµµàµ•àµ

Solution :

àµ, àµ¹àµ€ àµ%àµµàµ•àµµàµ°àµµàµ¿àµ¿àµµàµ¿àµ•àµ²àµ•àµ²àµ² 1àµ àµ°àµ•àµ†àµ•àµ³/àµµ àµ•àµ¿àµ, àµµàµ!àµ, àµµàµ€

àµ²àµ(àµ• àµœàµ€àµµàµ" àµ®àµ†àµ, àµ•àµ¿àµ, àµµàµ!àµ, àµµàµ†àµ€ àµ•àµ³/ àµ—àµ¹àµ(àµµ àµ®àµ¹àµµàµ•àµµ àµ¹àµ" àµœàµ(àµ²àµ°àµ®àµ•àµ²àµ°àµ³/ àµ"àµ³/ àµ•àµ¹àµ³/àµ"àµ¿àµ¿àµ³/ àµ²àµ³/ àµ²àµ†àµ€àµ•àµ•àµ€àµ•àµ€àµµàµ° àµ²àµ†àµ€àµ•àµ¿àµ¿àµ(àµ, àµ•àµ(àµ, àµ, àµ•àµ°àµµàµ†àµ€ àµœàµ³/ àµ°àµ¹àµ€ àµ¹àµ(àµ•àµ¿àµ, àµµàµ!àµ, àµµàµ†àµ€ àµ•àµ¹àµ²àµ³/àµµàµ†àµ€ àµ¹àµ" àµ†àµ, àµ²àµ¿àµ¿àµ• àµ"àµ! àµ¶àµ—àµ•àµ! àµ!àµ¿àµ¿àµ• àµ—àµ• àµµàµ³/àµ•àµ•àµ"àµ" àµ®àµ†àµ, àµ, àµ³/àµ°àµ•àµ†àµ• àµ¶àµ—àµ•àµ! àµ¹àµ

Question 96 :

àµ"àµ¿àµ®àµ•àµ"àµ²àµ¿àµ—àµ¿àµµ àµ²àµ•àµ°àµ¶àµ°àµ¶àµ" àµ®àµ†àµ, àµ!àµ¿àµ¿àµ• àµ—àµ• àµ§àµ³/àµ° àµµàµ¿àµ•àµ²àµ•àµ²àµ(àµ, àµ®àµ†àµ, àµ, àµ†, àµ%àµ, àµµàµ¿àµ•àµ²àµ•àµ²àµ² àµ•àµ³/ àµ§àµ—àµ" àµ•àµ°àµ†àµ, àµœàµ(àµ(àµ®àµ•àµ¹àµ³/àµµàµ°àµ† àµ•àµ³/ àµ àµ°àµ•àµ†àµµàµ•àµ"àµ"àµ•àµ°àµµ àµ•àµ°àµ°àµµàµ³/ àµ¹àµ"àµ†àµ àµ•àµµàµ³/ àµ•àµ† àµ—àµ"àµ, àµ—àµ"

Difficulty : Moderate

Average Time : 26 Seconds

Options :

1. àµ®àµ" àµ—àµ¿àµ³/àµ, àµµ àµ—àµ³/àµµàµ†àµ,
2. àµ àµ, àµ, àµµàµ àµµàµ, àµ•àµµàµ•
3. àµ•àµ†àµ²àµ‡ àµµàµ•àµ"àµ•àµ•àµµàµ¿



$\frac{1}{2}x + \frac{1}{3}y = 1$ and $\frac{1}{3}x + \frac{1}{4}y = \frac{1}{2}$ are two lines in the Cartesian plane. Find the area of the triangle formed by these two lines and the x-axis.

Solution :

Let the lines be L_1 and L_2 . The equations are $\frac{1}{2}x + \frac{1}{3}y = 1$ and $\frac{1}{3}x + \frac{1}{4}y = \frac{1}{2}$. The lines intersect at the point $(\frac{12}{5}, \frac{2}{5})$. The area of the triangle formed by these lines and the x-axis is $\frac{1}{2} \times \frac{12}{5} \times \frac{2}{5} = \frac{12}{25}$ square units.

The area of the triangle formed by the lines $\frac{1}{2}x + \frac{1}{3}y = 1$ and $\frac{1}{3}x + \frac{1}{4}y = \frac{1}{2}$ and the x-axis is $\frac{12}{25}$ square units.

Question 97 :

A line is drawn through the point $(2, 3)$ and perpendicular to the line $4x - 3y + 2 = 0$. Find the equation of the line.

Difficulty : Moderate

Average Time : 29 Seconds

Options :

- $3x + 4y - 14 = 0$
- $4x - 3y - 10 = 0$
- $3x + 4y + 14 = 0$
- $4x - 3y + 10 = 0$

Solution :

The line is perpendicular to $4x - 3y + 2 = 0$. The slope of the given line is $\frac{4}{3}$. The slope of the perpendicular line is $-\frac{3}{4}$. The equation of the line is $y - 3 = -\frac{3}{4}(x - 2)$. Simplifying, we get $3x + 4y - 14 = 0$.

The equation of the line is $3x + 4y - 14 = 0$.

Question 98 :

A line is drawn through the point $(2, 3)$ and parallel to the line $4x - 3y + 2 = 0$. Find the equation of the line.

Difficulty : Moderate

Average Time : 28 Seconds

Options :

- $4x - 3y - 10 = 0$
- $3x + 4y - 14 = 0$
- $4x - 3y + 10 = 0$
- $3x + 4y + 14 = 0$

Solution :

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

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

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

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

Question 99 :

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

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

Difficulty : Moderate

Average Time : 29 Seconds

Options :

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

Solution :

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

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

Question 100 :

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

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



Difficulty : Moderate

Average Time : 27 Seconds

Options :

1. $\frac{1}{2} \times \frac{3}{4} = \frac{3}{8}$
2. $\frac{1}{2} \times \frac{3}{4} = \frac{3}{8}$ and $\frac{1}{2} \times \frac{3}{4} = \frac{3}{8}$ are not equal to $\frac{3}{8}$ and $\frac{1}{2} \times \frac{3}{4} = \frac{3}{8}$ is not equal to $\frac{3}{8}$
3. $\frac{1}{2} \times \frac{3}{4} = \frac{3}{8}$

Solution :

$\frac{1}{2} \times \frac{3}{4} = \frac{3}{8}$ and $\frac{1}{2} \times \frac{3}{4} = \frac{3}{8}$ are not equal to $\frac{3}{8}$ and $\frac{1}{2} \times \frac{3}{4} = \frac{3}{8}$ is not equal to $\frac{3}{8}$

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 Morning Hindi exam is as follows:

1. 100 questions were moderate.
2. The safe score is 85 marks.
3. 25 questions were asked from Quantitative Aptitude, 25 questions were asked from Logical Reasoning, 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

Quantitative Aptitude

1. Simplification - 3
2. Average - 2
3. Percentage - 1
4. Time And Work - 2
5. Time Speed And Distance - 2
6. Interest - 2
7. Ratios And Proportion - 2
8. Mensuration - 2
9. Number System - 3

- Quadratic Equation - 1
11. Profit And Loss - 5

Logical Reasoning

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

General Awareness

1. NDA GK - 25

Hindi Language

1. Hindi - 25

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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[Answer Key](#)
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Further Guidance on Ssc Gd Constable prelims Previous Year Question Paper

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Neetu Mam is primarily passionate for the English language and teaching from the last 20 years however for the Ssc Gd Constable prelims Previous Year Question Paper. She has guided her team to provide the best explanation for the question.