

Ssc Cgl Tier I Previous Year Question Paper Overview

Here, you can solve all the questions asked in Ssc Cgl Tier I Previous Year Question Paper on 2022-12-06 in the Noon exam. The detailed solutions are also provided for every previous year question and some of these questions can be asked again in your Ssc Cgl Tier I exam. There are 100 questions in the exam and 60 minutes are provided for the Ssc Cgl Tier I exam. The Cutoff of the exam was 140 marks hence you should try to score at least 150 marks.

Ssc Cgl Tier I Previous Year Question Paper : Questions and Solutions

Question 1 :

As of 10 April 2022, who among the following is the Chief Minister of Puducherry?

Difficulty : Moderate

Average Time : 42 Seconds

Options :

1. N Rangasamy
2. RV Janakiraman
3. V Vaithilingam
4. P Shanmugam

Solution :

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

- Natesan Krishnasamy Rangasamy is an Indian politician and the current Chief Minister of the Union Territory of Puducherry.
- Rangasamy is the founder and leader of the All India NR Congress (AINRC) political party.
- Rangasamy started his political career in the Indian National Congress party and served as a member of the Legislative Assembly of Puducherry for five terms from 1985 to 2011.
- In 2011, Rangasamy formed his own party, the AINRC, and contested the elections, winning a majority and becoming the Chief Minister of Puducherry for the first time.
- He was re-elected in 2021 and is currently serving his second term as Chief Minister.

Question 2 :

What is the average height of troposphere?



Difficulty : Moderate

Average Time : 61 Seconds

Options :

1. 20 km
2. 13 km
3. 24 km
4. 8 km

Solution :

The correct answer is **option 2** i.e. **13 km**.

- Earth's troposphere extends from Earth's surface to, on average, about 13 kilometers in height, with its height lower at Earth's poles and higher at the equator.
- The height of the top of the troposphere varies with latitude (it is lowest over the poles and highest at the equator) and by season (it is lower in winter and higher in summer).

Question 3 :

Two positions of the same cubical block are shown. When '6' is at the top, which number will be at the bottom?

Difficulty : Moderate

Average Time : 52 Seconds

Options :

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

Solution :

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

In both dice, 4 is common. So, start rotating either in the clockwise or anticlockwise direction.

Clockwise direction:

Dice 1: 4 5 2

Dice 2: 4 3 1

So, 4 is opposite to 6.

Anticlockwise direction:

Dice 1: 4 2 5

Dice 2: 4 1 3

So, 4 is opposite to 6.

Hence, when '6' is at the top, 4 will be at the bottom.

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

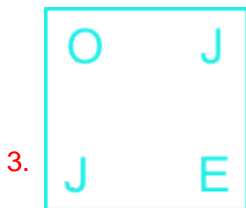
Question 4 :

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

Difficulty : Moderate

Average Time : 54 Seconds

Options :



Solution :



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

The letters at the top left and the bottom right corners are increasing by 1 and 3 respectively in each step according to the English alphabetical series.

The letters at the top right corner and the bottom left corners are increasing by 2 and 4 respectively in each step according to the English alphabetical series.

Question 5 :

Which of the following was known as an organisation of merchants in the inscriptions of the Pallavas?

Difficulty : Moderate

Average Time : 68 Seconds

Options :

1. Nagaram
2. Sangathana
3. Ur
4. Sabha

Solution :

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

- Nagaram was an organisation of merchants.
- Eleven inscriptions from Pallava period were found at a Sivan Temple at Azhakiyamanavalam near Mannachanallur in the district by research scholars.
- Civilization of the Pallava period was greatly influenced by the religious reform movement that swept over India during the eighth century.

Question 6 :

Sundaram Balachander has been the main player of which of the following musical instruments?

Difficulty : Moderate

Average Time : 47 Seconds

Options :

1. Mridangam

Bansuri

3. Veena

4. Santoor

Solution :

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

- Balachander was a renowned Veena player and is considered one of the pioneers of modern Carnatic music.
- Veena is also a plucked stringed instrument used in the Carnatic music tradition.
- He was a child prodigy who taught himself to play the Veena, an ancient stringed instrument that is sometimes called the Indian lute. He directed several Tamil films, mostly mysteries.

Question 7 :

Established in 1867 at Bombay, the _____ sought to remove caste restrictions, abolish child marriage, and encourage the education of women, etc.

Difficulty : Moderate

Average Time : 52 Seconds

Options :

1. Veda Samaj
2. Arya Samaj
3. Prarthana Samaj
4. Satyashodhak Samaj

Solution :

The correct answer is **option 3** i.e. **Prarthana Samaj**.

- The Prarthana Samaj was established in Bombay by Dr. Atma Ram Pandurang in 1876 with the objective of rational worship and social reform.
- The two great members of this Samaj were R.C. Bhandarkar and Justice Mahadev Govind Ranade.

Question 8 :

The appointments committee of cabinet (ACC) extended the tenure of current Research and Analysis Wing (RAW) chief for another year, till June 30, 2023. Who is the current chief?

Difficulty : Moderate

Average Time : 47 Seconds

Options :



Mukul Rohatgi

2. Anil Chauhan

3. Samant Kumar Goel

4. Sunil Barthwal

Solution :

The correct answer is **option 3** i.e. **Samant Kumar Goel**.

- Samant Kumar Goel is an IPS officer from the Punjab cadre class of 1984.
- Samant Kumar Goel's contract as secretary of the intelligence agency's Research and Analysis Wing (RAW) was extended by the Centre on June 24 by another year.
- In June 2019, Samant Kumar Goel succeeded Anil Dhasmana as the Chief of RAW.

Question 9 :

Which of the following numbers will replace the question mark (?) in the given series? 121, 169, 289, ?, 529, 841

Difficulty : Moderate

Average Time : 50 Seconds

Options :

1. 484

2. 361

3. 343

4. 441

Solution :

The correct answer is **option 2** i.e. **361**.

Given series: 121, 169, 289, ?, 529, 841

The series follows this pattern:

$$11^2 = 121$$

$$13^2 = 169$$

$$17^2 = 289$$

$$19^2 = 361$$

$$23^2 = 529$$



$$29^2 = 841$$

So, the missing term in the series is **361**.

Question 10 :

Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.) Dog: Bitch:: Stallion:?

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

1. Doe
2. Mare
3. Goose
4. Vixen

Solution :

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

The logic used here is:

Dog: Bitch

A male dog is called a dog, and a female dog is called a bitch.

Similarly,

Stallion:?

A male horse is called a stallion, and a female horse is called a mare.

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

Question 11 :

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

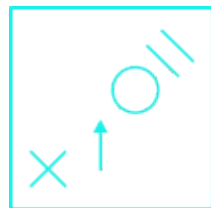
Difficulty : Moderate**Average Time : 49 Seconds****Options :**

1.

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



Solution :



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

In step 1, the first two signs from the top right corner interchange their positions. Two signs from the bottom left corner interchange their positions.

In step 2, the two signs at the bottom left corner interchange positions with the two signs at the top right corner

After that step 1 and 2 repeat themselves.

Question 12 :

Which two numbers, from among the given options, should be interchanged to make the given equation correct? $(14 + 39 - (\sqrt{144} \div 4) + \left(\{5 \times 3\} \right) - 6 = 63)$



Difficulty : Moderate

Average Time : 70 Seconds

Options :

1. 4 and 3
2. 5 and 39
3. 14 and 6
4. 4 and 6

Solution :

The correct answer is **option 1** i.e. **4 and 3**.

Given equation: $\backslash(14 + 39 - (\sqrt{144} \div 4) + \backslashleft(\{5 \times 3\} \right) - 6 = 63\backslash)$

Option 1: 4 and 3

After interchanging the expression becomes:

$$= \backslash(14 + 39 - (\sqrt{144} \div 3) + \backslashleft(\{5 \times 4\} \right) - 6 = 63\backslash)$$

$$= 14 + 39 - 12 + 20 - 6$$

$$= 63 \text{ is equal to } 63.$$

As we have found our answer, so, there is no need of checking further options.

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

Question 13 :

How many circles can be drawn that pass through two fixed points?

Difficulty : Moderate

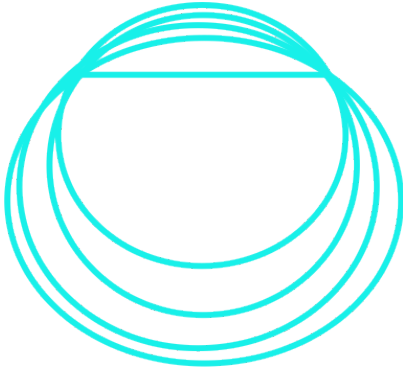
Average Time : 53 Seconds

Options :

1. Infinite
2. Only two
3. One or two
4. Only one

Solution :

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



We can see in the above figure there infinite circles can be drawn that pass through two fixed points.

Question 14 :

If x is the mean proportional between 12.8 and 64.8, then the value of x is:

Difficulty : Moderate

Average Time : 43 Seconds

Options :

1. 32
2. 34
3. 28.8
4. 26.4

Solution :

The correct answer is **Option 3** i.e.**28.8**.

Mean proportion $X = \sqrt{12.8 \times 64.8}$

$$X = 28.8$$

Question 15 :

If $\cot A = 15/8$, then what will be the value of $\tan 2A$?

Difficulty : Moderate

Average Time : 34 Seconds

Options :

1. 200/161
2. 240/161



240/173

4. 220/171

Solution :

The correct answer is **Option 2** i.e. **240/161**.

$$\cot A = 15/8$$

$$\tan A = 8/15$$

$$\tan 2A = 2 \tan A / (1 - \tan^2 A)$$

$$\tan 2A = \frac{2 \times \frac{8}{15}}{1 - (\frac{8}{15})^2}$$

$$\tan 2A = (16/15) / (161/225)$$

$$= 240/161$$

Question 16 :

The table given below shows the number of persons participating in a survey from 6 different states. States Persons J 200 K 300 L 500 M 600 N 700 P 900 The number of persons participating in the survey from L is what percent of the number of persons participating in the survey from J?

Difficulty : Moderate**Average Time : 49 Seconds****Options :**

1. 200 percent
2. 250 percent
3. 80 percent
4. 40 percent

Solution :

The correct answer is **Option 2** i.e. **250 percent**.

The number of persons participating in the survey from L = 500

The number of persons participating in the survey from J = 200

The required percentage = $500/200 \times 100 = 250\%$

Question 17 :

The table given below shows the temperature recorded every day in a certain week. Days Temperature Monday 20°

Tuesday 45° Wednesday 30° Thursday 50° Friday 25° Saturday 55° Sunday 60° What is the difference between the temperature recorded on Monday and Tuesday together and the temperature recorded on Friday and Saturday together?

Difficulty : Moderate

Average Time : 51 Seconds

Options :

1. 25°
2. 20°
3. 15°
4. 10°

Solution :

The correct answer is **Option 3** i.e. 15°.

The difference between the temperature recorded on Monday and Tuesday together and the temperature recorded on Friday and Saturday together = $(20 + 45) - (25 + 55) = 15^\circ$

Question 18 :

350 + 926 + 2718 + 928 + 929 is divisible by which of the following integers?

Difficulty : Moderate

Average Time : 36 Seconds

Options :

1. 11
2. 5
3. 7
4. 2

Solution :

The correct answer is **Option 1** i.e. 11.

$$3^{50} + 9^{26} + 27^{18} + 9^{28} + 9^{29}$$

$$3^{50} + (3^2)^{26} + (3^3)^{18} + (3^2)^{28} + (3^2)^{29}$$

$$3^{50} + 3^{52} + 3^{54} + 3^{56} + 3^{58}$$

$$3^{50}(1 + 9 + 81 + 729 + 6561)$$

$$3^{50}(7381)$$



7381 is divisible by 11.

So, $3^{50} + 9^{26} + 27^{18} + 9^{28} + 9^{29}$ is divisible by 11.

Question 19 :

A car with a price of Rs.6,50,000 is bought by making some down payment. On the balance, a simple interest of 10% is charged in a lump sum and the money is to be paid in 20 equal annual installments of Rs.25,000. How much is the down payment?

Difficulty : Moderate

Average Time : 58 Seconds

Options :

1. Rs.1,55,945
2. Rs.1,95,455
3. Rs.1,94,555
4. Rs.1,45,955

Solution :

The correct answer is **Option 2** i.e. **Rs.1,95,455**.

The cost price of the car = Rs 650000

Let's assume the remaining amount after down payment = Rs x

total installments = $20 \times 25000 = \text{Rs } 500000$

According to the question,

$$500000 = x \times 110/100$$

$$x = 454545.4$$

So, the down payment = $650000 - 454545.4 = 1,95,455$

Question 20 :

A shopkeeper has 2220 kg of rice. A part of which he sells at a 20% profit and the rest at a 12% profit. He gains 18% on the whole. The quantity (in kg) sold at a 12% profit is:

Difficulty : Moderate

Average Time : 50 Seconds

Options :

1. 555

1210

3. 1665

4. 425

Solution :The correct answer is **Option 1** i.e. **555**.

Total rice = 2220 kg

By using allegation method,

20 12

18

6 : 2

3 : 1

 $(3 + 1) = 2220$ $4 = 2220$ $1 = 555 \text{ kg}$

The quantity (in kg) sold at a 12% profit is = 555 kg

Question 21 :

Choose the correct statement from the following.

Difficulty : Moderate**Average Time : 49 Seconds****Options :**

1. HCF is the least common multiple of the given numbers.
2. HCF of two or more numbers is the highest number that perfectly divides all the given numbers.
3. HCF is also called the least common divisor.
4. In prime factorisation method of HCF, the multiples of all the given numbers are listed.

Solution :The correct answer is **Option 2** i.e. **HCF of two or more numbers is the highest number which perfectly divides all the given numbers.**

HCF is the Highest common multiple of the given numbers.

HCF of two or more numbers is the highest number that perfectly divides all the given numbers.

HCF is also called the Highest common divisor.

In the prime factorisation method of HCF, the Factors of all the given numbers are listed.

Question 22 :

The pie chart given below shows the production of 6 different factories. The total production of all these 6 factories is 12000. The production of a particular factory is shown as a percent of the total production of all these 6 factories. J_1 = The value of average production of P and R. J_2 = The value of average production of Q and S. What is the value of $(J_1 - J_2)$?

Difficulty : Moderate**Average Time : 77 Seconds****Options :**

1. 360
2. 840
3. 340
4. 400

Solution :

The correct answer is **Option 2** i.e. **840**.

J_1 = The value of average production of P and R = $(12 + 30)/2 = 21\%$

J_2 = The value of average production of Q and S = $(15 + 13)/2 = 14\%$

$J_1 - J_2 = 7 \times 12000/100 = 840$

Question 23 :

If $\left(\frac{a}{b} + \frac{b}{a}\right) = 1$ and $a + b = 2$, then the value of $a^3 + b^3$ is:

Difficulty : Moderate**Average Time : 39 Seconds****Options :**

1. 0
2. 3
3. 1
4. 2

**Solution :**

The correct answer is **Option 1** i.e. **0**.

We have given in the question,

$$\left(\frac{a}{b} + \frac{b}{a}\right) = 1$$

$$a^2 + b^2 = ab$$

$$a^2 + b^2 - ab = 0$$

$$\text{So, } a^3 + b^3 = (a + b)(a^2 + b^2 - ab) = 0$$

Question 24 :

If 3 coconuts are offered free on purchase of 12 coconuts, priced Rs.25 each, what is the effective discount on each coconut?

Difficulty : Moderate

Average Time : 52 Seconds

Options :

1. 20%
2. 24%
3. 20.83%
4. 15%

Solution :

The correct answer is **Option 1** i.e. **20%**.

We have given in the question,

3 coconuts are offered free on purchase of 12 coconuts.

So, the effective discount = $\frac{3}{12 + 3} \times 100 = 20\%$

Question 25 :

The population of country A decreased by p% and the population of country B decreased by q% from the year 2020 to 2021. Here 'p' is greater than 'q'. Let 'x' be the ratio of the population of country A to the population of country B in the given year. What is the percentage decrease in 'x' from 2020 to 2021?

Difficulty : Moderate

Average Time : 49 Seconds

Options :

$$\frac{100(p-q)}{100-q}$$

$$2. \frac{100(p-q)}{100+p}$$

$$3. \frac{100(p-q)}{100-p}$$

$$4. \frac{100(p-q)}{100+q}$$

Solution :

The correct answer is **Option 1** i.e. $\frac{100(p-q)}{100-q}$.

Let's assume the population of the country A in 2020 = 100

and the population of the country B in 2020 = 100

$$x = 100/100 = 1$$

According to the question,

In 2021,

$$\text{The population of A} = 100(100 - p)/100 = 100 - p$$

$$\text{The population of B} = 100(100 - q)/100 = 100 - q$$

$$x = (100 - p)/(100 - q)$$

Percentage decrease,

$$[1 - (100 - p)/(100 - q)] \times 100$$

$$= [100 - q - 100 + p]/100 - q \times 100$$

$$= \frac{100(p-q)}{100-q}$$

Question 26 :

A chord of length 40 cm is drawn in a circle having a diameter of 50 cm. What is the minimum distance of the other parallel chord of length 30 cm in the same circle from the 40 cm long chord?

Difficulty : Moderate

Average Time : 77 Seconds

Options :

1. 10 cm

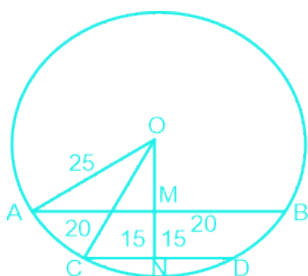
15 cm

3. 5 cm

4. 20 cm

Solution :

The correct answer is **Option 3** i.e. **5 cm**.



In triangle AOM,

$$AO^2 = AM^2 + OM^2$$

$$25^2 = 20^2 + OM^2$$

$$625 - 400 = OM^2$$

$$OM = 15 \text{ cm}$$

In triangle CON,

$$CO^2 = CN^2 + ON^2$$

$$25^2 = 15^2 + ON^2$$

$$625 - 225 = ON^2$$

$$ON = 20 \text{ cm}$$

So, the distance between the chords $MN = 20 - 15 = 5 \text{ cm}$

Question 27 :

If $4x^2 + y^2 = 40$ and $xy = 6$, find the positive value of $2x + y$.

Difficulty : Moderate

Average Time : 59 Seconds

Options :

1. 8



6

3. 5

4. 4

Solution :

The correct answer is **Option 1** i.e. **8**.

We have given in the question,

$$4x^2 + y^2 = 40 \text{ and } xy = 6$$

$$(2x + y)^2 = 4x^2 + y^2 + 4xy$$

$$(2x + y)^2 = 40 + 24$$

$$2x + y = 8$$

Question 28 :

Piyush sold a guitar to Anuj at 16% gain and Anuj sold it to Mayank at 32% gain. If Mayank paid Rs.3,828 for the guitar, what amount did Piyush pay for the same?

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

1. Rs.2,500

2. Rs.3,200

3. Rs.1,600

4. Rs.2,800

Solution :

The correct answer is **Option 1** i.e. **2,500**.

Let's assume the cost price of the guitar = x

$$x \times (116/100) \times (132/100) = 3828$$

$$x = 2500$$

Question 29 :

The external diameter of an iron pipe is 20 cm and its length is 12 cm. If the thickness of the pipe is 1 cm, find the surface



area of the pipe (take $\pi = 22/7$) correct to two places of decimal.

Difficulty : Moderate

Average Time : 43 Seconds

Options :

1. 1,662.67 cm²
2. 1,552.57 cm²
3. 1,442.48 cm²
4. 1,772.76 cm²

Solution :

The correct answer is **Option 2** i.e. **1,552.57 cm²**.

The external diameter of an iron pipe = 20 cm

$$R = 20/2 = 10$$

$$\text{length} = 12 \text{ cm}$$

$$\text{Thickness} = 1 \text{ cm}$$

$$\text{So, the inner radius } r = 10 - 1 = 9 \text{ cm}$$

$$\text{TSA of hollow pipe} = 2h(R + r) + 2(R^2 - r^2)$$

$$= 2 \times 12(10 + 9) + 2(10^2 - 9^2)$$

$$= 456 + 38$$

$$= 494 \times 3.14$$

$$= 1,552.57 \text{ cm}^2$$

Question 30 :

A group of men decided to do a job in 6 days, but 18 men dropped out every day. If the job was completed in 8 days, then how many men initially decided to do the job.

Difficulty : Moderate

Average Time : 57 Seconds

Options :

1. 300
2. 252



188

4. 150

Solution :

The correct answer is **Option 2** i.e. **252**.

Let's assume the total number of men initially = x

So, the total work = $6x$

18 men dropped out every day so the work done in 8 days

$$[x + (x - 18) + (x - 36) + (x - 54) + (x - 72) + (x - 90) + (x - 108) + (x - 126)] \times 8 = 6x$$

$$8x - 504 = 6x$$

$$x = \mathbf{252}.$$

Question 31 :

What is the value of $\left(\frac{\cos 37^\circ}{\sin 53^\circ}\right)$?

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

1. $\left(\frac{1}{2}\right)$

2. $\left(\frac{1}{\sqrt{2}}\right)$

3. 0

4. 1

Solution :

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

$$\left(\frac{\cos 37^\circ}{\sin 53^\circ}\right) = \left(\frac{\cos(90 - 53^\circ)}{\sin 53^\circ}\right)$$

$$\left(\frac{\sin 53^\circ}{\sin 53^\circ}\right) = 1$$

Question 32 :

What is the value of $\left(\cos\left(-\frac{17\pi}{3}\right)\right)$?

Difficulty : Moderate**Average Time : 41 Seconds**

**Options :**

1. 1
2. $\sqrt{3 \over 2}$
3. $\{1 \over 2\}$
4. 0

Solution :

The correct answer is **Option 3** i.e. $\{1 \over 2\}$.

$$= \cos(-{17\pi \over 3})$$

$$= \cos({6\pi - \frac{\pi}{3}})$$

$$= \cos(-) = \cos$$

$$\cos/3 = \cos 60^\circ = 1/2$$

Question 33 :

A dog saw a cat at a distance of 280 m. The cat started running at the speed of 10 km/h and the dog also ran to catch it with the speed of 24 km/h. How much time will the dog take to catch the cat?

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

1. 1.4 min
2. 1.5 min
3. 1.2 min
4. 1.3 min

Solution :

The correct answer is **Option 3** i.e. **1.2 min**.

The distance between dog and cat = 280m

$$\text{Relative speed} = 24 - 10 = 14 \text{ km/h} \times 5/18 = 35/9 \text{ m/s}$$

$$\text{time taken the dog take to catch the cat} = 280 / (35/9) = 72 \text{ Sec} = 1.2 \text{ min}$$

Question 34 :

A tangent is drawn from point M to a circle, which meets the circle at T such that $MT = 12$ cm. A secant MAB intersects the circle at points A and B. If $MA = 8$ cm, what is the length (in cm) of the chord AB?

Difficulty : Moderate

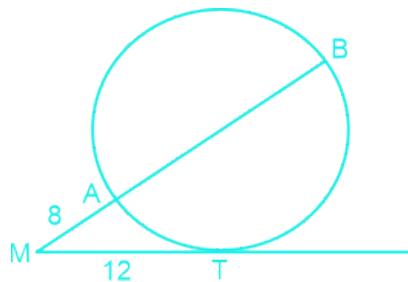
Average Time : 49 Seconds

Options :

1. 16
2. 10
3. 12
4. 9

Solution :

The correct answer is **Option 2** i.e. **10**.



We know that

$$MT^2 = MA \times MB$$

$$12^2 = 8 \times MB$$

$$MB = 18$$

$$AB = MB - MA = 18 - 8 = 10 \text{ cm}$$

Question 35 :

If $(p = 7 + 4\sqrt{3})$, then what is the value of $\left(\frac{p^6 + p^4 + p^2 + 1}{p^3}\right)$?

Difficulty : Moderate

Average Time : 45 Seconds

Options :

1. 2617
2. 2167



2716

4. 2176

Solution :

The correct answer is **Option 3** i.e. **2716**.

$$p = 7 + 4\sqrt{3}$$

So, after the rationalization

$$\frac{1}{p} = \frac{7 - 4\sqrt{3}}{p}$$

$$p + \frac{1}{p} = 14$$

$$p^3 + \frac{1}{p^3} = 14^3 - 3 \times 14 = 2702$$

The value of $\frac{p^6 + p^4 + p^2 + 1}{p^3} =$

$$\frac{p^3(p^3 + p + \frac{1}{p} + \frac{1}{p^3})}{p^3}$$

$$= (p^3 + \frac{1}{p^3} + p + \frac{1}{p})$$

$$= 2702 + 14 = \mathbf{2716}$$

Question 36 :

The height of an equilateral triangle is $(7\sqrt{3})$ cm. What is the area of this equilateral triangle?

Difficulty : Moderate**Average Time : 68 Seconds****Options :**

1. $(36\sqrt{3}) \text{ cm}^2$

2. $(25\sqrt{3}) \text{ cm}^2$

3. $(49\sqrt{3}) \text{ cm}^2$

4. $(32\sqrt{3}) \text{ cm}^2$

Solution :

The correct answer is **Option 3** i.e. $(49\sqrt{3}) \text{ cm}^2$.

Height of the equilateral triangle = $(7\sqrt{3})$

$$\frac{a\sqrt{3}}{2} = (7\sqrt{3})$$



$$a = 14 \text{ cm}$$

$$\text{Area of the equilateral triangle} = \left(\frac{\sqrt{3}}{4}\right)a^2$$

$$= \left(\frac{\sqrt{3}}{4}\right)14^2$$

$$= (49 \sqrt{3} \text{ cm}^2)$$

Question 37 :

The pie chart given below shows the number of boys in 8 schools. The total number of boys in all these 8 schools is 12000. The number of boys in a particular school is shown as a percent of the total number of boys in all these 8 schools. The average number of boys in S1 and S2 is what percent of the average number of boys in S6 and S8?

Difficulty : Moderate**Average Time : 83 Seconds****Options :**

1. 133.33 percent
2. 192.24 percent
3. 172.26 percent
4. 146.15 percent

Solution :

The correct answer is **Option 4** i.e. **146.15 percent**.

$$\text{The average number of boys in S1 and S2} = 12000/100 \times (31 + 7)/2 = 2280$$

$$\text{The average number of boys in S6 and S8} = 12000/100 \times (11 + 15)/2 = 1560$$

$$\text{Required percentage} = 2280/1560 \times 100 = 146.15\%$$

Question 38 :

Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'. The soldiers had no choice to report the loss to their commander.

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

1. no choice as to
2. . no choice how to
3. No substitution required



no choice but to

Solution :

The correct answer is **Option 4** i.e. **no choice but to**.

- The underlined part of the sentence is erroneous in nature. It changes the entire meaning of the sentence.
- The phrase "had no choice but to" is a common idiom used to express that someone is compelled or obligated to do something.
- It indicates that there is no other alternative or option available to them.
- In this context, the soldiers are in a situation where reporting the loss to their commander is their only course of action.

Thus, the corrected sentence is:

*The soldiers had no choice **but** to report the loss to their commander.*

Question 39 :

Identify the most appropriate ANTONYM of the underlined word in the given sentence. The game continued due to heavy rainfall after the pitch became completely wet.

Difficulty : Moderate

Average Time : 68 Seconds

Options :

1. ongoing
2. played
3. stopped
4. disregarded

Solution :

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

The meaning of the given words is

- **Continued:** Still in progress or uninterrupted.
- **Stopped:** Brought to a halt or ceased.
- **Ongoing:** Currently happening or in progress.
- **Played:** Engaged in an activity or fulfilled a role.
- **Disregarded:** Ignored or not given proper attention.

Thus, the most appropriate antonym for the underlined word is **stopped**.

Question 40 :

Select the most appropriate meaning of the given idiom. On the ball

Difficulty : Moderate

Average Time : 53 Seconds

Options :

1. To be alert
2. Doing a bad job
3. Doing an average job
4. To be lazy

Solution :

The correct answer is **Option 1** i.e. **To be alert**.

- The meaning of the given idiom, **on the ball**, is '**alert to new ideas, methods, and trends**'.

Thus, the most appropriate choice among the given options is '**to be alert**'.

Question 41 :

Select the most appropriate collocating word to fill in the blank. Great people are always ready to _____ responsibilities.

Difficulty : Moderate

Average Time : 48 Seconds

Options :

1. kindle
2. secure
3. shoulder
4. burden

Solution :

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

- The most appropriate collocating word to fill in the blank in the given sentence is "shoulder".
- The verb "shoulder" in this context means to accept or take on responsibilities.
- When someone "shoulders responsibilities," it indicates their willingness and readiness to bear the burden or take charge of important tasks or obligations.
- Therefore, "shoulder" is the correct word to convey the idea that great people are always prepared to take on

responsibilities.

Thus, the completed sentence is:

*Great people are always ready to **shoulder** responsibilities.*

Question 42 :

Select the most appropriate ANTONYM of the word 'IMMORAL' from the given sentence. The city of Hamburg and its surrounding region have generally decent health, with no pandemic illnesses having lately developed to any significant degree.

Difficulty : Moderate

Average Time : 67 Seconds

Options :

1. Degree
2. Decent
3. Illness
4. Region

Solution :

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

The meaning of the given words is:

- **Immoral:** Immoral is an adjective that describes behavior or actions that are considered morally wrong or unethical.
- **Decent:** Decent is an adjective that describes behavior or actions that are considered appropriate, respectable, or conforming to accepted standards.
- **Degree:** Degree can have multiple meanings depending on the context. It can refer to an academic qualification awarded by a university or college upon the completion of a specific course of study. It can also refer to a unit of measurement for angles or temperature. Additionally, it can refer to the extent, level, or amount of something.
- **Illness:** Illness refers to a state of poor health or the presence of a disease or medical condition in an individual.
- **Region:** Region refers to a specific area or geographic location that is distinct from others based on certain characteristics or boundaries.

*Thus, the most appropriate antonym for the underlined word is **decent**.*

Question 43 :

In the given sentence the underlined word may have been incorrectly spelt. Identify the option that rectifies the spelling. If there is no error in spelling, select 'No error'. The Education Ministry believes that after the reopening of the schools, it will



take some time to regain the equilibrium.

Difficulty : Moderate

Average Time : 91 Seconds

Options :

1. equilibreum
2. equelilibrium
3. No error
4. equilibrium

Solution :

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

The correct spelling and meaning of the given word is:

- **Equilibrium**: a state in which opposing forces or influences are balanced.

Question 44 :

Select the sentence with the appropriate use of preposition.

Difficulty : Moderate

Average Time : 40 Seconds

Options :

1. By means of rope ladders they scaled the wall.
2. Along with means of rope ladders they scaled the wall.
3. in means of rope ladders they scaled the wall.
4. Of means of rope ladders they scaled the wall.

Solution :

The correct answer is **Option 1** i.e. **By means of rope ladders they scaled the wall**.

- The preposition "**by**" is correctly used to indicate the method or instrument used for scaling the wall, which in this case is "rope ladders."
- The phrase "by means of" is a common expression used to indicate the way or manner in which something is done.
- Therefore, this sentence conveys the intended meaning that they used rope ladders as a means or method to scale the wall.



Thus, the sentence with the correct use of preposition is:

By means of rope ladders they scaled the wall.

Question 45 :

Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph. A. Such problems include difficulty in implementing decisions, providing social security to everyone and ensuring employment. B. This is because almost all countries face problems related to their population. C. The most crucial aspect of the problem is population pressure. D. The population explosion is an important issue these days.

Difficulty : Moderate

Average Time : 86 Seconds

Options :

1. CDAB
2. DBCA
3. DBAC
4. ABCD

Solution :

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

- The sentence D sets the context and introduces the topic of the paragraph. It establishes the significance of population-related problems.
- The sentence B further provides a reason for discussing population-related problems. It explains that the prevalence of these problems is widespread among countries.
- The sentence A presents specific examples of the problems faced due to the population explosion. It expands on the challenges associated with the population issue, such as decision implementation, social security, and employment.
- Lastly, the sentence C concludes the paragraph by emphasizing that population pressure is the most critical aspect of the population problem. It reiterates the central theme and highlights the importance of addressing this issue.
- Thus, the sequence **DBAC** creates a coherent and logical paragraph where each sentence contributes to the overall topic of population-related problems, their prevalence, specific challenges, and the central aspect of population pressure.

Therefore, the correct paragraph is:



The population explosion is an important issue these days. This is because almost all countries face problems related to their population. Such problems include difficulty in implementing decisions, providing social security to everyone, and ensuring employment. The most crucial aspect of the problem is population pressure.

Question 46 :

Select the correct indirect form of the given sentence. Radha said, "Why didn't he forward his petition to me?"

Difficulty : Moderate**Average Time : 93 Seconds****Options :**

1. Radha enquired why he had not forwarded his petition to her.
2. Radha enquired why he has not forwarded his petition to her.
3. Radha enquired why had he not forwarded his petition to her.
4. Radha enquired why he had not forward his petition to her.

Solution :

The correct answer is **Option 1** i.e. **Radha enquired why he had not forwarded his petition to her.**

The following steps must be followed to convert the given direct form of the sentence into its indirect form:

- Identify the reporting verb: In this case, the reporting verb is "said."
- Identify the reporting verb's reporting clause: The reporting clause is "Radha said."
- Identify the tense of the reporting verb: In this case, the tense is past tense.
- Convert the reporting verb to the corresponding reporting verb in the reporting clause, "said" can be changed to "enquired" to indicate a question.
- "that" is used to introduce the reported speech.
- Change the pronouns and possessive adjectives in the reported speech, "me" should be changed to "her" to reflect the perspective of the reported speech.
- Change the tense of the verb in the reported speech, "didn't" should be changed to "had not" to reflect past tense in reported speech.
- The reported speech should not be enclosed in quotation marks or separated by a comma.



Thus, the most appropriate form of indirect sentence is:

Radha enquired why he had not forwarded his petition to her.

Question 47 :

Rearrange the parts of the sentence in correct order. Electrolytes like P. important for balancing the water in your body Q. are present in the body's fluids and are R. are electrically charged minerals that S. sodium, potassium, chloride and magnesium

Difficulty : Moderate

Average Time : 114 Seconds

Options :

1. PQSR
2. SPRQ
3. SQRP
4. SRQP

Solution :

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

- The sentence is discussing electrolytes and their characteristics. To establish coherence and logical flow, the sentence should be arranged as follows:
- The **statement S**, "Electrolytes like sodium, potassium, chloride, and magnesium" introduces the subject and lists the specific electrolytes being discussed.
- The **statement R**, "are electrically charged minerals that" further explains the nature of electrolytes, emphasizing their electrical charge.
- The **statement Q**, "are present in the body's fluids and are" connects the previous information to the context of the body, stating that electrolytes exist in the body's fluids.
- Lastly, the **statement P**, "important for balancing the water in your body" concludes the sentence by explaining the significance of electrolytes in maintaining water balance in the body.
- Therefore, the accurate sequence is SRQP as it ensures a logical and coherent flow of information.

Thus, the coherent sentence would be:

Electrolytes like sodium, potassium, chloride and magnesium are electrically charged minerals that are present in the body's fluids and are important for balancing the water in your body.

Question 48 :

Select the option that can be used as a one-word substitute for the underlined words in the given sentence. Today my dad

will teach me how to make a small shelter for my dog.

Difficulty : Moderate

Average Time : 94 Seconds

Options :

1. kennel
2. canal
3. burrow
4. shed

Solution :

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

The meaning of the given words is:

- **Kennel**: A small shelter or enclosure for housing dogs.
- **Canal**: A man-made waterway constructed for navigation, irrigation, or drainage purposes.
- **Burrow**: A hole or tunnel dug by certain animals, such as rabbits or foxes, for habitation or shelter.
- **Shed**: A small building or structure used for storage or as a shelter, typically for tools, equipment, or livestock.

Thus, the most appropriate one word substitution for the underlined set of words is **kennel**.

Question 49 :

Select the most appropriate ANTONYM of the given word. Harmony

Difficulty : Moderate

Average Time : 59 Seconds

Options :

1. Hostility
2. Congruity
3. Consent
4. Concord

Solution :

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

The meaning of the given words is:

- **Harmony:** A state of agreement, cooperation, or peaceful coexistence between individuals, groups, or elements.
- **Hostility:** A state of enmity, opposition, or antagonism between individuals, groups, or elements.
- **Congruity:** The quality of being in agreement, harmony, or correspondence.
- **Consent:** Permission, agreement, or approval given by an individual to another.
- **Concord:** Agreement, harmony, or unity between individuals, groups, or things.

Thus, the most appropriate antonym for the given word is **hostility**.

Question 50 :

Select the most appropriate option to complete the given sentence. His brother _____ his _____ and gave him a watch after his result.

Difficulty : Moderate

Average Time : 63 Seconds

Options :

1. took, word
2. broke, record
3. lost, temper
4. kept, promise

Solution :

The correct answer is **Option 4** i.e. **kept, promise**.

- In the sentence, it is mentioned that the brother did something and then gave the person a watch after his result.
- The word "kept" aligns completely well with promise, further stating that after the fulfilment of the sentence the latter action was taken.
- Therefore, it is logical to use the word "kept" to indicate that the brother did not break the promise made by him.
- The option "kept, promise" fits the sentence structure and conveys the intended meaning that the brother kept his promise and rewarded his brother with a watch.
- The other options do not provide a suitable and logical meaning in the given context.

Thus, the completed sentence is:

His brother **kept** his **promise** and gave him a watch after his result.

Question 51 :

Select the correct active form of the given sentence. The dog was terrified by the unexpected noise.

Difficulty : Moderate

Average Time : 73 Seconds

Options :

1. The unexpected noise had terrified the dog
2. The unexpected noise terrified the dog.
3. The unexpected noise has terrified the dog.
4. The unexpected noise terrifies the dog.

Solution :

The correct answer is **Option 2** i.e. **The unexpected noise terrified the dog.**

Following steps must be followed to convert the given passive voice sentence into its active form:

- Identify the subject of the passive sentence, which is "the dog."
- Find the active verb that corresponds to the passive verb "was terrified." In this case, the active verb is "terrified."
- Determine the doer of the action (the agent) that is mentioned in the passive sentence, which is "the unexpected noise."
- Rearrange the sentence to make the subject the doer of the action and the object the receiver of the action
- In the active form of the sentence, the subject "the unexpected noise" should be performing the action "terrified" on the object "the dog."

Thus, the most appropriate form of active voice is:

The unexpected noise terrified the dog.

Question 52 :

Select the option that can be used as a one-word substitute for the given group of words. Existing in a land from the earliest times or from before the arrival of colonists

Difficulty : Moderate

Average Time : 86 Seconds

Options :

1. Native
2. Ancient
3. Aboriginal



Original

Solution :

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

The meaning of the given words is:

- **Aboriginal:** Referring to the indigenous or native people who have been living in a particular region or country from the earliest times or before colonization.
- **Native:** Relating to or characteristic of the original inhabitants of a region or country.
- **Ancient:** Pertaining to a period of time in the distant past, typically referring to a time that is long before the present.
- **Original:** Referring to something that is the first or earliest of its kind, not a copy or imitation. It denotes the source or beginning of something.

Thus, the most appropriate one word substitution for the given set of words is **aboriginal**.

Question 53 :

Select the correct active form of the given sentence. This trail is not frequently visited by hikers.

Difficulty : Moderate

Average Time : 69 Seconds

Options :

1. Hikers not have frequently visit this trail.
2. Hikers does not frequently visit this trail.
3. Hikers do not visit this trail frequently
4. Hikers did not frequently visit this trail.

Solution :

The correct answer is **Option 3** i.e. **Hikers do not visit this trail frequently**.

The following steps must be followed to convert the given passive voice sentence into its active form:

- Identify the subject of the passive sentence: In this case, the subject is "this trail."
- Determine the tense of the verb in the passive voice: In this case, the verb is "is," which indicates present tense.
- Identify the agent or doer of the action (optional): In the passive voice, the agent is often introduced by the preposition "by." In this sentence, the agent is "hikers."



Rearrange the sentence to place the subject before the verb: In the active voice, the subject typically comes before the verb.

- Choose an appropriate active verb to replace the passive verb: The active verb should convey the same meaning as the passive verb. In this case, the passive verb "visited" can be replaced with the active verb "visit."
- Remove the auxiliary verb if it is not necessary: In this sentence, the auxiliary verb "is" is not necessary in the active voice.

Thus, the correct active form of the given sentence would be:

Hikers do not frequently visit this trail.

Question 54 :

Select the INCORRECTLY spelt word.

Difficulty : Moderate

Average Time : 98 Seconds

Options :

1. Athlete
2. Practically
3. Benefitted
4. Antarctic

Solution :

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

The correct spellings and meanings of the given words are:

- **Antarctic:** Referring to the region surrounding the South Pole or anything related to Antarctica, which is characterized by extreme cold temperatures and vast ice sheets.
- **Athlete:** A person who participates in sports or physical activities, typically demonstrating skill, physical prowess, and competitive spirit.
- **Practically:** Referring to something that is done or achieved in a practical or realistic manner, often implying effectiveness or usefulness.
- **Benefitted:** The past tense of the verb "benefit," which means to gain an advantage, profit, or positive outcome from something.

**Question 55 :**

Select the most appropriate synonym of the underlined word in the given sentence. The essayist's sole intention was to baffle his readers.

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

1. **Puzzle**
2. Influence
3. Scold
4. Annoy

Solution :

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

The meaning of the given words is:

- **Baffle**: To confuse or perplex someone, making it difficult for them to understand or comprehend something.
- **Puzzle**: To present a problem, situation, or question that requires thought, analysis, or investigation to find a solution or answer.
- **Influence**: The power or ability to have an effect on someone or something, often shaping or altering their thoughts, actions, or behavior.
- **Scold**: To reprimand or criticize someone sternly or angrily for their actions, typically expressing disapproval or dissatisfaction.
- **Annoy**: To cause mild or persistent irritation, frustration, or discomfort to someone, often by repetitive or bothersome actions or behaviors.

Thus, the most appropriate synonym for the underlined word is **puzzle**.

Question 56 :

The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer. He always / aimed high / in life.

Difficulty : Moderate**Average Time : 78 Seconds****Options :**

1. No error
2. in life



aimed highly

4. He always

Solution :

The correct answer is **Option 3** i.e. **aimed highly**.

- The second part of the given sentence is erroneous in nature.
- It violates the standard word order in English sentences.
- In English, adverbs usually come after the verb they modify.
- However, in the given sentence, "aimed highly" places the adverb "highly" before the verb "aimed."
- Moreover, instead of an adverb, the sentence demanded a noun to not hinder to make the sentence both grammatically and contextually correct.

Thus, the correct sentence would be:

He always **aimed high** in life.

Question 57 :

Select the most appropriate meaning of the underlined idiom. When the war breaks out, all the war mongering social media activists become yellow bellies.

Difficulty : Moderate

Average Time : 63 Seconds

Options :

1. Zealots
2. Cowards
3. Sceptics
4. Upset stomachs

Solution :

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

The idiom "yellow bellies" typically refers to individuals who are considered cowardly or lacking in courage.

The meaning of the given options:

- **Cowards:** Individuals who lack bravery or courage, often characterized by a strong aversion to danger, confrontation, or taking risks.
- **Zealots:** People who are excessively enthusiastic or passionate about a particular cause, belief, or ideology, often



displaying fanatical or uncompromising behavior.

- **Sceptics:** Individuals who tend to question or doubt the validity, truthfulness, or reliability of something, often seeking evidence or rational justification before accepting or believing in it.

Thus, the most appropriate choice from the given options is **Cowards**.

Comprehension :

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. India is one of the largest producers of tea in the world. The industry is (1)_____ recognised as technically very well (2) _____. The Indian tea industry is a (3) _____ one traditionally. Tea has been used in India for (4) _____ purposes as well as for (5) _____.

Question 58 :

Select the most appropriate option to fill in blank number 1.

Difficulty : Moderate

Average Time : 82 Seconds

Options :

1. globally
2. tediously
3. industrially
4. mutually

Solution :

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

The meaning of the given words is:

- **Globally:** Pertaining to the entire world or involving multiple countries or regions on a global scale.
- **Tediously:** In a tedious manner, characterized by monotony, repetition, or excessive detail, often resulting in boredom or frustration.
- **Industrially:** Relating to industry or industrial processes, typically referring to large-scale production or manufacturing activities.
- **Mutually:** In a manner that is shared or reciprocated between two or more parties, involving mutual actions, benefits, or agreements. Thus, the most appropriate filler for the given blank is **globally**.

Thus, the correct sentence is:

India is one of the largest producers of tea in the world. The industry is globally recognised as technically very well equipped.

**Comprehension :**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. India is one of the largest producers of tea in the world. The industry is (1)_____ recognised as technically very well (2) _____. The Indian tea industry is a (3) _____ one traditionally. Tea has been used in India for (4) _____ purposes as well as for (5) _____.

Question 59 :

Select the most appropriate option to fill in blank number 2.

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

1. complex
2. establish
3. pampered
4. equipped

Solution :

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

The meaning of the given words is:

- **Equipped:** Having the necessary tools, resources, or skills to effectively perform a task or fulfill a purpose.
- **Complex:** Involving intricate or interconnected elements, often challenging to understand or analyze due to their intricacy or sophistication.
- **Establish:** To set up or create something, typically an organization, system, or structure, with the intention of making it permanent or official.
- **Pampered:** To indulge or treat someone with excessive care, attention, or luxury, often providing them with special privileges or comforts.
- Thus, the most appropriate filler for the given blank is **equipped**.

Therefore, the completed sentence is:

*The industry is globally recognised as technically very well **equipped**.*

Comprehension :

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate



option to fill in each blank. India is one of the largest producers of tea in the world. The industry is (1)_____ recognised as technically very well (2) _____. The Indian tea industry is a (3) _____ one traditionally. Tea has been used in India for (4) _____ purposes as well as for (5) _____.

Question 60 :

Select the most appropriate option to fill in blank number 3.

Difficulty : Moderate

Average Time : 86 Seconds

Options :

1. flourish
2. condensing
3. flourishing
4. thrashing

Solution :

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

The meaning of the given words is:

- **Flourishing:** Thriving, prospering, or experiencing growth and success in various aspects of life, such as personal, professional, or societal.
- **Flourish:** To grow or develop in a healthy, vigorous, or successful way.
- **Condensing:** The process of making something more concise, compact, or compressed.
- **Thrashing:** To flail or beat violently and repeatedly, often resulting in chaotic or uncontrolled movements. In computing, it can refer to excessive or unnecessary disk activity or CPU usage.
- Thus, the most appropriate filler for the given blank is **flourishing**.

Therefore, the completed sentence is:

The Indian tea industry is a **flourishing** one traditionally. Tea has been used in India for medicinal purposes as well as for **condensing**.

Comprehension :

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. India is one of the largest producers of tea in the world. The industry is (1)_____ recognised as technically very well (2) _____. The Indian tea industry is a (3) _____ one traditionally. Tea has been used in

India for (4) _____ purposes as well as for (5) _____.

Question 61 :

Select the most appropriate option to fill in blank number 4.

Difficulty : Moderate

Average Time : 91 Seconds

Options :

1. sick
2. immune
3. medicinal
4. immunology

Solution :

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

The meaning of the given words is:

- **Medicinal:** Pertaining to the use or administration of medicines or drugs for the treatment or prevention of diseases or medical conditions.
- **Sick:** Being in a state of illness or unwellness, experiencing symptoms of disease or poor health.
- **Immune:** Having a natural or acquired resistance to infections or diseases.
- **Immunology:** The branch of biology and medicine that studies the immune system, including its structure, functions, and responses to pathogens or foreign substances.
- Thus, the most appropriate filler for the given blank is **medicinal**.

Therefore, the completed sentence is:

Tea has been used in India for **medicinal** purposes as well as for consumption.

Comprehension :

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. India is one of the largest producers of tea in the world. The industry is (1)_____ recognised as technically very well (2) _____. The Indian tea industry is a (3) _____ one traditionally. Tea has been used in India for (4) _____ purposes as well as for (5) _____.

Question 62 :

Select the most appropriate option to fill in blank number 5.



Difficulty : Moderate

Average Time : 87 Seconds

Options :

1. fulfillment
2. advantage
3. consumption
4. retention

Solution :

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

The meaning of the given words is:

- **Consumption:** The act of using or consuming goods or services.
- **Fulfilment:** The satisfaction or contentment experienced when one's desires or expectations are met.
- **Advantage:** A favorable or beneficial circumstance or feature that gives someone a superior or advantageous position.
- **Retention:** The ability to retain or keep customers, employees, or information over a period of time.
- Thus, the most appropriate filler for the given blank is **consumption**.

Therefore, the completed sentence is:

*Tea has been used in India for medicinal purposes as well as for **consumption**.*

Question 63 :

If $X \times Y$ means that X is the father of B, $X \div B$ means that X is the mother of B, $X - Y$ means that X is the brother of Y. Then which of the following expression shows that A is the father of C?

Difficulty : Moderate

Average Time : 75 Seconds

Options :

1. $A - B \times C$
2. $A \div C - B$
3. $A \times B \div C$
4. $A \times B - C$

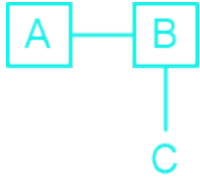
Solution :

The correct answer is **option 4** i.e. **A × B – C**.

In the diagram shown;

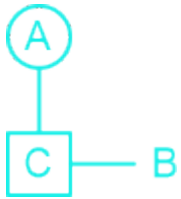
Square shows males, the circle shows females, vertical lines show generations, a single horizontal line shows brothers or sisters, and double lines show a couple.

Option 1: A – B × C



From the above tree, A is the paternal uncle of C.

Option 2: A ÷ C – B



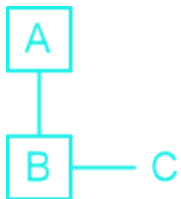
From the above tree, A is the mother of C.

Option 3: A × B ÷ C



From the above tree, A is the grandfather of C.

Option 4: A × B – C



From the above tree, A is the father of C.

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

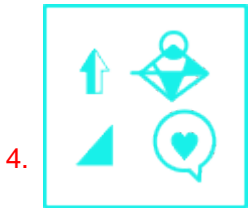
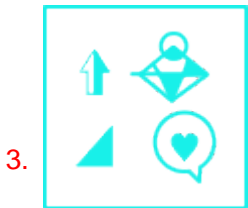
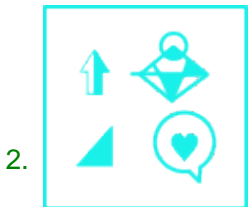
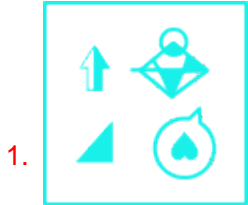
Question 64 :

Select the correct mirror image of the given figure when the mirror is placed at AB as shown.

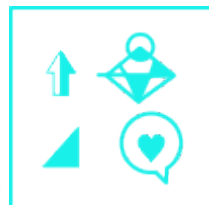
Difficulty : Moderate

Average Time : 94 Seconds

Options :

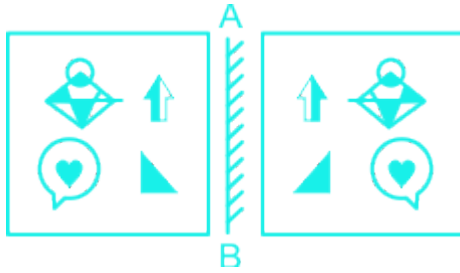


Solution :



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

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 2** is the correct answer.

Question 65 :

Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.) Octagon: Eight:: Heptagon:?

Difficulty : Moderate

Average Time : 83 Seconds

Options :

1. Ten
2. Six
3. Nine
4. Seven

Solution :

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

The logic used here is:

Octagon: Eight

An octagon has eight sides.

Similarly,

Heptagon:?

A heptagon has seven sides.

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

Question 66 :



Select the set in which the numbers are related in the same way as are the numbers of the following set. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits.)

(2, 125, 3) (1, 64, 3)

Difficulty : Moderate

Average Time : 49 Seconds

Options :

1. (2, 100, 8)
2. (5, 512, 3)
3. (12, 50, 13)
4. (4, 341, 3)

Solution :

The correct answer is **option 2** i.e. **(5, 512, 3)**.

The logic used here is:

(2, 125, 3)

$$3 + 2 = 5$$

$$5^3 = 125$$

(1, 64, 3)

$$3 + 1 = 4$$

$$4^3 = 64$$

Similarly,

(5, 512, 3)

$$5 + 3 = 8$$

$$8^3 = 512$$

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

Question 67 :

Select the option that is related to the fourth term in the same way as the first term is related to the second term and the fifth term is related to the sixth term. 10: 45::? : 28:: 11: 55

Difficulty : Moderate

Average Time : 48 Seconds

**Options :**

1. 9

2. 8

3. 12

4. 10

Solution :

The correct answer is **option 2** i.e. **8**.

The logic used here is:

10: 45

$$= (10 / 2) \times (10 - 1)$$

$$= 5 \times 9$$

$$= 45$$

11: 55

$$= (11 / 2) \times (11 - 1)$$

$$= 11 / 2 \times 10$$

$$= 55$$

Similarly,

? : 28

$$28 = (x / 2) \times (x - 1)$$

$$56 = x (x - 1)$$

$$56 = x^2 - x$$

$$0 = (x - 8) (x - 7)$$

$$x = \text{either } 8 \text{ or } -7$$

value can't be negative so, the answer is 8

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

Question 68 :

By interchanging the given two signs which of the following equation will be correct? + and ÷

Difficulty : Moderate

Average Time : 58 Seconds

Options :

1. $9 \times 18 + 27 \div 36 - 30 = 18$

2. $9 + 3 \times 2 - 8 \div 1 = -1$

3. $16 + 8 \times 2 \div 6 - 9 = 10$

4. $16 + 2 \times 6 \div 3 - 7 = 50$

Solution :

The correct answer is **option 2** i.e. $9 + 3 \times 2 - 8 \div 1 = -1$.

Given conditions: + and \div

Option 1: $9 \times 18 + 27 \div 36 - 30 = 18$

After interchanging the expression becomes:

$$= 9 \times 18 \div 27 + 36 - 30 = 18$$

= 12 is not equal to 18.

Option 2: $9 + 3 \times 2 - 8 \div 1 = -1$

After interchanging the expression becomes:

$$= 9 \div 3 \times 2 - 8 + 1 = -1$$

= -1 is not equal to -1.

As we have found our answer, so, there is no need of checking further options.

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

Question 69 :

Study the given pattern carefully and select the number that can replace the question mark (?) in it. 243 162 9 108 72 6 48 ? 4 (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

Difficulty : Moderate

Average Time : 74 Seconds

Options :

1. 12

21

3. 32

4. 23

Solution :

The correct answer is **option 3** i.e. **32**.

The logic used here is:

Row 1:

$$243 - 162 = 81$$

$$81 = 9$$

Row 2:

$$108 - 72 = 36$$

$$36 = 6$$

Row 3:

$$4^2 = 16$$

$$48 - x = 16$$

$$x = 32$$

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

Question 70 :

In the following question, four number pairs are given. In each pair, the number on the left side of (–) is related to the number on the right side of (–) with some Logic/Rule/Relation. Three pairs are similar on the basis of the same Logic/Rule/Relation. Select the odd one out from the given alternatives. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

Difficulty : Moderate**Average Time : 68 Seconds****Options :**

1. 8 – 60



6 – 33

3. 12 – 141

4. 10 – 97

Solution :

The correct answer is **option 1** i.e. **8 – 60**.

The logic used here is:

The logic used here is:

$$(1\text{st number})^2 - 3 = 2\text{nd number}$$

Option 1: 8 – 60

$$8^2 = 64$$

$$64 - 3 = 61$$

This does not follow the logic.

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

Question 71 :

Three of the following letter clusters are alike in some manner and hence form a group. Which letter cluster does not belong to that group?

Difficulty : Moderate

Average Time : 50 Seconds

Options :

1. HED

2. STM

3. ABU

4. MNG

Solution :

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

The logic used here is:

The logic used here is:



1st letter + 1 = 2nd letter

2nd letter - 7 = 3rd letter

Option 1: HED

H + 1 = I

I - 7 = B

This does not follow the logic.

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

Question 72 :

In a certain code language, 'NULLIFY' is written as 'MFOLRUB', and 'SKYWALK' is written as 'HPBWZOP'. How will 'FLAGGER' be written in that language?

Difficulty : Moderate

Average Time : 54 Seconds

Options :

1. VOZGTVI

2. UOZHTVI

3. UOZGTVI

4. UOZITVL

Solution :

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

The logic used here is:

'NULLIFY' is written as 'MFOLRUB'

Opposite of N = M

Opposite of U = F

Opposite of L = O

L = L

Opposite of I = R

Opposite of F = U

Opposite of Y = B

'SKYWALK' is written as 'HPBWZOP'

Opposite of S = H

Opposite of K = P

Opposite of Y = B

W = W

Opposite of A = Z

Opposite of L = O

Opposite of K = P

Similarly;

Code for the word FLAGGER:

Opposite of F = U

Opposite of L = O

Opposite of A = Z

G = G

Opposite of G = T

Opposite of E = V

Opposite of R = I

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

Question 73 :

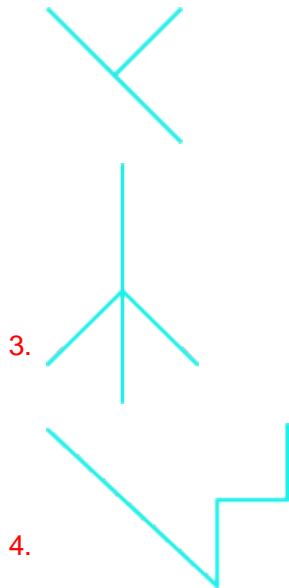
Select the option figure which is embedded in the given figure as its part (rotation is NOT allowed).

Difficulty : Moderate

Average Time : 79 Seconds

Options :



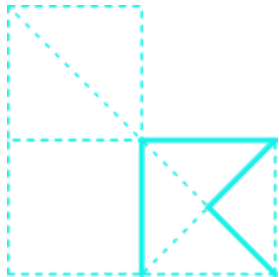


Solution :

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



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



Question 74 :

Three statements are given followed by three conclusions numbered I, II, and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow (s) from the statements. Statements: Some mice are keyboards. All keyboards are CPUs. All mice are webcams. Conclusions: I. Some CPUs are mice. II. Some webcams are keyboards. III. Some webcams are CPUs.

Difficulty : Moderate

Average Time : 77 Seconds

Options :

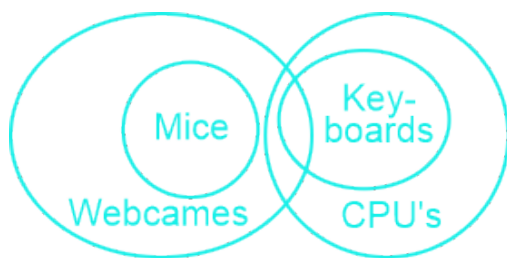
All conclusions follow

2. Only conclusions I and II follow
3. Only conclusions II and III follow
4. Only conclusions I and III follow

Solution :

The correct answer is **option 1** i.e. **All conclusions follow.**

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

**Conclusions:**

- I. Some CPUs are mice **True** (As some mice are keyboards, and all keyboards are CPUs, so, some CPUs are mice is also true.)
- II. Some webcams are keyboards **True** (As all mice are webcams, and some mice are keyboards, so, some webcams are keyboards is also true.)
- III. Some webcams are CPUs **True** (As some mice are keyboards, and all keyboards are CPUs, and all mice are webcams, so, some webcams are CPUs is also true.)

Hence, **All conclusions follow.**

Question 75 :

After interchanging the given two numbers and two signs what will be the values of equations (I) and (II) respectively? \times and $-$, 4 and 5 I. $9 \div 3 \times 6 + 5 - 4$ II. $5 - 4 \times 3 + 6 \div 2$

Difficulty : Moderate

Average Time : 80 Seconds

Options :

1. 17, 20
2. 8, 6
3. 16, 20

20, 17

Solution :

The correct answer is **option 1** i.e. **17, 20**.

Given conditions: x and $-$, 4 and 5

I. $9 \div 3 \times 6 + 5 - 4$

After interchanging the expression becomes:

$$= 9 \div 3 - 6 + 4 \times 5$$

$$= 3 - 6 + 4 \times 5$$

$$= 3 - 6 + 20$$

$$= 3 + 14$$

$$= 17$$

II. $5 - 4 \times 3 + 6 \div 2$

After interchanging the expression becomes:

$$= 4 \times 5 - 3 + 6 \div 2$$

$$= 4 \times 5 - 3 + 3$$

$$= 20 - 3 + 3$$

$$= 20$$

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

Question 76 :

Select the option that represents the correct order of the given words as they would appear in an English dictionary. 1- Miscellaneous 2- Miscalculate 3- Mischance 4- Miscall 5- Miscasting

Difficulty : Moderate

Average Time : 57 Seconds

Options :

1. 2, 4, 1, 5, 3

2. 2, 4, 5, 1, 3

3. 4, 2, 5, 3, 1

4, 2, 5, 1, 3

Solution :

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

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

- 1- Miscalculate
- 2- Miscall
- 3- Miscasting
- 4- Miscellaneous
- 5- Mischance

Question 77 :

A – B means 'A is the mother of B' A % B means 'A is the brother of B' A \$ B means 'A is the sister of B' A @ B means 'A is the son of B' If L @ M – N \$ O % P, then how is L related to P?

Difficulty : Moderate

Average Time : 52 Seconds

Options :

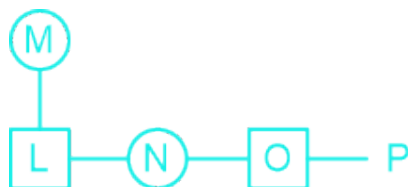
- 1. Brother-in-law
- 2. Father
- 3. Son
- 4. Brother

Solution :

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

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 tree, L is the brother of P.

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

Question 78 :

Which letter cluster will replace the question mark (?) to complete the given series? MDSA, KERC, ?, GGPG, EHOI

Difficulty : Moderate

Average Time : 52 Seconds

Options :

1. IFQE
2. IFQG
3. IEQF
4. IQFE

Solution :

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

Given series: MDSA, KERC, ?, GGPG, EHOI

The series follows this pattern:

MDSA, KERC

$$M - 2 = K$$

$$D + 1 = E$$

$$S - 1 = R$$

$$A + 2 = C$$

Similarly;

KERC,?

$$K - 2 = I$$

$$E + 1 = F$$

$$R - 1 = Q$$

$$C + 2 = E$$

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

**Question 79 :**

In a certain code language, BELOVED is coded as 65, and FLOWER is coded as 79. How will QUIVER be coded in that language?

Difficulty : Moderate**Average Time : 54 Seconds****Options :**

1. 92
2. 94
3. 91
4. 90

Solution :

The correct answer is **option 1** i.e. **92**.

The logic used here is:

BELOVED is coded as 65

$$\text{BELOVED} = 2 + 5 + 12 + 15 + 22 + 5 + 4 = 65$$

FLOWER is coded as 79

$$\text{FLOWER} = 6 + 12 + 15 + 23 + 5 + 18 = 79$$

Similarly;

Code for the word QUIVER:

$$\text{QUIVER} = 17 + 21 + 9 + 22 + 5 + 18 = 92$$

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

Question 80 :

In the following question below are given some statements followed by some conclusions based on those statements.

Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusion logically follows the given statements. Statements: I. All Q are M. II. All O are M. Conclusion: I. Some O are not Q. II. All M are Q.

Difficulty : Moderate**Average Time : 59 Seconds****Options :**

Both conclusions I and II follows

2. Only conclusion II follows
3. Only conclusion I follows
4. Neither conclusion follows

Solution :

The correct answer is **option 4** i.e. **Neither conclusion follows.**

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

**Conclusions:**

- I. Some O are not Q **False** (It is possible, but no definite conclusion can be drawn.)
II. All M are Q **False** (It is possible, but no definite conclusion can be drawn.)

Hence, **Neither conclusion follows.**

Question 81 :

A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
NDRF, NZJT, NVBH, NRTV, ?

Difficulty : Moderate

Average Time : 63 Seconds

Options :

1. NJRM
2. NTQC
- 3.>NNLJ
4. NIRQ

Solution :

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



Given series: NDRF, NZJT, NVBH, NRTV, ?

The series follows this pattern:

NDRF, NZJT

N = N

D - 4 = Z

R - 8 = J

F - 12 = T

Similarly;

NRTV, ?

N = N

R - 4 = N

T - 8 = L

V - 12 = J

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

Question 82 :

Baisakhi, the famous festival of Sikhs, is celebrated in which month every year?

Difficulty : Moderate

Average Time : 52 Seconds

Options :

1. April
2. February
3. January
4. March

Solution :

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

- Baisakhi is the most famous festival celebrated by the Sikh community people.
- This day is observed either on the 13th or 14th of **April** every year.
- Baisakhi is thus a significant festival that celebrates the birth of the Khalsa and the spirit of courage, sacrifice, and



selflessness that it embodies.

Question 83 :

Chola inscriptions mention several categories of land, which of the following I and was known as gifted to temples?

Difficulty : Moderate

Average Time : 49 Seconds

Options :

1. Devadana
2. Shalabhoga
3. Pallichchandam
4. Brahmadeya

Solution :

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

- Land grants to religious institutions were called Brahmadeya, (i.e. donated to Brahmins) Devadana (donated to Gods), and Agrahara (Settlement – of priests).
- These lands donated to the temples and monasteries apart from being used as normal tenancy also carried a right vested with the temple authorities to call for unpaid labour (called Vishti) as a religious service to the temple from the tillers on the donated land.

Question 84 :

Who was sworn in as the Central Vigilance Commissioner (CVC) by President Droupadi Murmu in August 2022?

Difficulty : Moderate

Average Time : 51 Seconds

Options :

1. Rajiv Gauba
2. Ranjit Rath
3. Pramod Kumar
4. Suresh N. Patel

Solution :

The correct answer is **option 4** i.e. **Suresh N. Patel**.

- Vigilance Commissioner Suresh N. Patel was sworn in as the Central Vigilance Commissioner (CVC) by President Droupadi Murmu at Rashtrapati Bhavan.

The ceremony was also attended by the Prime Minister Narendra Modi, Vice-President M. Venkaiah Naidu and Leader of the Opposition (LoP) in the Rajya Sabha Mallikarjun Kharge.

Question 85 :

How many times did India organise the Commonwealth Games?

Difficulty : Moderate

Average Time : 47 Seconds

Options :

1. Once
2. Twice
3. Thrice
4. Never

Solution :

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

- India hosted the Commonwealth Games in 2010. This was the first time India has hosted the Games and only the second time the event has been held in Asia (Kuala Lumpur in 1998 was the first).
- The Games saw the participation of 71 Commonwealth Games Associations.

Question 86 :

Identify a dark-coloured amorphous substance that is highly resistant to microbial action and undergoes decomposition at an extremely slow rate.

Difficulty : Moderate

Average Time : 46 Seconds

Options :

1. Chitin
2. Humus
3. Carotenoids
4. Colloids

Solution :

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

- Humus is dark, organic material that forms in soil when plant and animal matter decays.
- When plants drop leaves, twigs, and other material to the ground, it piles up. This material is called leaf litter. When



animals die, their remains add to the litter.

- Over time, all this litter decomposes.

Question 87 :

How many Indian states shares its border with Bangladesh?

Difficulty : Moderate

Average Time : 45 Seconds

Options :

1. Three
2. Four
3. Six
4. Five

Solution :

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

- Indian states that share borders with Bangladesh are Assam, West Bengal, Mizoram, Meghalaya, and Tripura.
- Also, it is the fifth-longest land border in the World.
- The longest border is shared by Bangladesh which is 4096.70 Km (2,545-mile).

Question 88 :

A Hindu festival celebrated by the Tamil community that falls in Tamil Solar Month is called?

Difficulty : Moderate

Average Time : 44 Seconds

Options :

1. Karaga
2. Bihu
3. Onam
4. Thaipusam

Solution :

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

- Thaipusam is a day of prayers and penance.
- Dedicated to Lord Subramaniam, also known as Lord Murugan, a major South Indian god, the deity of youth, power and virtue, this festival is a time for repentance for devotees with celebrations carried out mainly at the temple.



Thaipusam is the day when everything you start will flourish, as Prajapati's grace is limitless.

Question 89 :

Goods and services tax (GST) became operational from _____.

Difficulty : Moderate

Average Time : 49 Seconds

Options :

- 1 July 2017
- 1 May 2016
- 1 April 2016
- 1 April 2017

Solution :

The correct answer is **option 1** i.e. **1 July 2017**.

- On 1st July, 2017, GST laws were implemented, replacing a complex web of Central and State taxes.
- Under the Indian GST, goods and services are categorized into different tax slabs, including 5%, 12%, 18%, and 28%.

Question 90 :

pH of milk of magnesia is _____.

Difficulty : Moderate

Average Time : 40 Seconds

Options :

- 12
- 8
- 10
- 14

Solution :

The correct answer is **option 3** i.e. **10**.

- pH value of Milk of Magnesia is 10.
- Milk of magnesia, also known as magnesium hydroxide, can act as an antacid or as a saline laxative.
- This type of laxative works by drawing moisture into a person's bowels to help loosen stool.

Question 91 :



The real executive power is vested in the Council of Ministers with the _____ as its head.

Difficulty : Moderate

Average Time : 44 Seconds

Options :

1. Prime Minister
2. Speaker of Rajya Sabha
3. Vice President
4. President

Solution :

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

- There is a Council of Ministers headed by the Prime Minister to aid and advise the President in exercise of his functions.
- The Prime Minister is appointed by the President, who also appoints other ministers on the advice of Prime Minister. The Council is collectively responsible to the Lok Sabha.

Question 92 :

Which singer was given the Padma Shri in 2022 under the Arts category?

Difficulty : Moderate

Average Time : 47 Seconds

Options :

1. Kumar Sanu
2. Udit Narayan
3. Abhijeet Bhattacharya
4. Sonu Nigam

Solution :

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

- Bollywood singer Sonu Nigam and Bengali actor Victor Banerjee were conferred with Padma Shri and Padma Bhushan Awards respectively under the Arts category on 29 March, 2022.
- Sonu Nigam is a popular and successful playback singer of Hindi Cinema, is also a recipient of several accolades, including a National Film Award his singing of the title track of the 2003 romantic film 'Kal Ho Naa Ho.

Question 93 :



What is the numerical value of a physical quantity?

Difficulty : Moderate

Average Time : 50 Seconds

Options :

1. Reference
2. Direction
3. Distance
4. Magnitude

Solution :

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

- Magnitude in Physics is a fundamental term in science. Magnitude refers to the general quantity or distance.
- The magnitude of force is measured in units of mass times length over time squared.
- In metric units the most common unit is the newton (N) where one Newton is a kilogram times a meter over a second squared.

Question 94 :

In March 2022, Tripura government announced _____ reservation for women in government jobs.

Difficulty : Moderate

Average Time : 48 Seconds

Options :

1. 20 percent
2. 27 percent
3. 10 percent
4. 33 percent

Solution :

The correct answer is **option 4** i.e. **33 percent**.

- Tripura State Policy for Empowerment of Women, 2022 has been formulated to lay down a comprehensive framework for empowerment of women in the State.
- To achieve this goal, it has been decided by the Government for providing 33% horizontal reservation in all State Government jobs in future vacancies.

Question 95 :



In 1840, the Paramhans Mandali was established to work for the abolition of 'Caste' at_____.

Difficulty : Moderate

Average Time : 45 Seconds

Options :

1. Lahore
2. Calcutta
3. Surat
4. Bombay

Solution :

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

- The organisation was founded by Dadoba Panderung and propelled one of the most powerful socio-religious movements in Western India.
- To promote the abolition of caste, the Paramhans Mandali was established in Bombay in 1840.
- The aim behind the formation of the Paramhans Mandali was the eradication of the caste system.

Question 96 :

In football, when the ball strikes the frame of the goal or the referee and remains within the goal and touch lines, it is:

Difficulty : Moderate

Average Time : 51 Seconds

Options :

1. foul
2. still in play
3. a misconduct
4. out of play

Solution :

The correct answer is **option 2** i.e. **still in play**.

- These are given when the entire ball crosses the goal line, whether on the ground or in the air, having last touched a member of the attacking side, and the goal is not scored.
- The ball is given a goal kick by the goalkeeper.
- The goal is disallowed and play restarts with a dropped ball for the defending team goalkeeper in their penalty area.

Question 97 :



The Indian Institute of remote sensing was established at:

Difficulty : Moderate

Average Time : 51 Seconds

Options :

1. Khadakwasla
2. Shimla
3. Dehradun
4. Kochi

Solution :

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

- Indian Institute of Remote Sensing (IIRS) at Dehradun is a premier institute with the objective of capacity building in Remote Sensing and Geo-informatics and their applications through education and training programmes at postgraduate level.
- Since its establishment in 1966, IIRS is a key player for training and capacity building in geospatial technology and its applications through training, education and research in Southeast Asia

Question 98 :

'Modernisation' as a goal of planning in context of the Indian economy was NOT aimed at:

Difficulty : Moderate

Average Time : 51 Seconds

Options :

1. adopting a Western lifestyle
2. change in social outlook
3. increase in production of goods and services
4. use of new technology

Solution :

The correct answer is **option 1** i.e. **adopting a Western lifestyle**.

- Modernization, as a planning objective, refers to the process of adopting and implementing new technologies, systems, and practices in order to increase efficiency, productivity, and competitiveness.
- Modernisation means such a variety of structural and institutional changes in the economic activities that can change a feudal and colonial economy into a progressive and modern economy that produces various types of goods. This requires the setting up of a wide variety of industries.

**Question 99 :**

In 1664, who discovered the fifth star in the Trapezium, an asterism (mini-constellation) in the constellation Orion?

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

1. George Willis Ritchey
2. Giordano Bruno
3. Johannes Kepler
4. Robert Hooke

Solution :

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

- In 1665, Robert Hooke published Micrographia, a book filled with drawings and descriptions of the organisms he viewed under the recently invented microscope
- The invention of the microscope led to the discovery of the cell by Hooke. While looking at cork, Hooke observed box-shaped structures, which he called “cells” as they reminded him of the cells, or rooms, in monasteries. This discovery led to the development of the classical cell theory.

Question 100 :

Match column A with column B. Column A Column B i. Kwashiorkor a. Iodine deficiency ii. Weak bones and muscles b. Iron deficiency iii. Anaemia c. Calcium deficiency iv. Goitre d. Protein deficiency

Difficulty : Moderate**Average Time : 62 Seconds****Options :**

1. i-c, ii-b, iii-d, iv-a
2. i-b, ii-a, iii-c, iv-d
3. i-d, ii-c, iii-b, iv-a
4. i-b, ii-c, iii-a, iv-d

Solution :

The correct answer is **option 3** i.e. **i-d, ii-c, iii-b, iv-a**.

- Kwashiorkor is a type of malnutrition characterized by severe protein deficiency. It causes fluid retention and a swollen, distended abdomen.



- Calcium deficiency can reduce bone strength and lead to osteoporosis, which is characterized by fragile bones.
- Anemia is a problem of not having enough healthy red blood cells or hemoglobin to carry oxygen to the body's tissues.
 - A goitre is a lump or swelling at the front of the neck caused by a swollen thyroid.

Ssc Cgl Tier I Previous Year Question Paper Analysis

The analysis of Ssc Cgl Tier I Previous Year Question Paper held on 2022-12-06 in the Noon exam is as follows:

1. 100 questions were moderate.
2. The safe score is 140 marks.
3. 25 questions were asked from General Awareness, 25 questions were asked from Logical Reasoning, 25 questions were asked from Quantitative Aptitude and 25 questions were asked from English Language
4. 24 questions should have been skipped if you were short of time.

Ssc Cgl Tier I Previous Year Question Paper Topic Wise Weightage

General Awareness

1. Art And Culture - 25

Logical Reasoning

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

Quantitative Aptitude

1. Percentage - 1
2. Data Interpretation - 4
3. Time And Work - 1
4. Time Speed And Distance - 1
5. Interest - 1
6. Ratios And Proportion - 1
7. Geometry - 3
8. Trigonometry - 3
9. Mensuration - 2
10. Algebra - 3
11. Number System - 1
12. Profit And Loss - 3
13. Arithmetic - 1

English Language

1. Grammar - 1
2. Cloze Test - 5
3. Spotting Error - 2
4. Parajumbles - 1
5. Sentence Jumbles - 1
6. Idioms - 2
7. One Word Substitution - 2
8. Fillers - 2
9. Narration - 1
10. Voice - 2
11. Sentence Improvement - 1
12. Synonym - 1
13. Antonym - 3
14. Incorrectly Spelt - 1
15. Incorrectly Spelt - 1

Ssc Cgl Tier I Previous Year Question Paper Tips and Tricks



1. Try to solve Ssc Cgl Tier I Previous Year Question Paper without taking any help from the solutions.
2. Ssc Cgl Tier I 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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Neetu Mam is primarily passionate for the English language and teaching from the last 20 years however for the Ssc Cgl Tier I Previous Year Question Paper. She has guided her team to provide the best explanation for the question.

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