



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 2022-12-02 in the Afternoon 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 :

The value of $\cot 15^\circ \cot 25^\circ \cot 45^\circ \cot 75^\circ \cot 65^\circ$ is:

Difficulty : Moderate

Average Time : 42 Seconds

Options :

1. 1

2. $\sqrt{3}$



3. 2

4. $\sqrt{2}$

Solution :

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

Concept used:

$\cot A \cdot \cot B = 1$ when $A + B = 90^\circ$

$\cot 45^\circ = 1$

Calculations:

$\cot 15^\circ \cot 25^\circ \cot 45^\circ \cot 75^\circ \cot 65^\circ$

Can be written as

$\cot 15^\circ \cot 75^\circ \cot 45^\circ \cot 25^\circ \cot 65^\circ$

1

Question 2 :

A sentence has been given with a blank to be filled with an appropriate word. Choose the correct alternative. Be it a chaat or a refreshing lemonade, lemon is the need of the hour in _____ summers.

Difficulty : Moderate

Average Time : 60 Seconds

Options :

1. banging
2. freezing
3. scorching
4. alleviating

Solution :

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

The meaning of the given options is:



Scorching: Scorching means very hot or burning. It is often used to describe extremely high temperatures or heat that can cause damage or destruction.

- **Banging:** Banging can have a few different meanings, but it generally refers to something that is loud, exciting, or excellent. For example, a "banging party" would be a really fun, exciting party.
- **Freezing:** Freezing means very cold or below freezing temperature. It is often used to describe extremely low temperatures that can cause discomfort or even frostbite.
- **Alleviating:** Alleviating means making something less severe or reducing its intensity. It is often used to describe actions or treatments that relieve pain, stress, or other negative feelings. For example, taking a pain reliever can alleviate a headache.

Thus, the most appropriate filler for the given blank is **scorching**.

Question 3 :

The following sentence has been split into four segments. Identify the segment that contains a grammatical error. They will go to bed / early since they / have to get up / at five on the morning.

Difficulty : Moderate

Average Time : 83 Seconds

Options :

1. have to get up
2. at five on the morning
3. They will go to bed
4. early since they

Solution :

The correct answer is **Option 2**. i.e. **at five on the morning**.

- The segment that contains a grammatical error is segment 4: "at five on the morning."
- "The correct way to express the time of day in English is "in the morning" or "in the evening," not "on the morning" or "on the evening."
- This sentence indicates that they need to wake up at 5 am, and uses the correct preposition "in" to indicate the time of day.

Therefore, the correct sentence would be:

*"They will go to bed early since they have to get up **at five in the morning**."*

**Question 4 :**

Select the sentence with the appropriate use of preposition.

Difficulty : Moderate

Average Time : 66 Seconds

Options :

1. It has been raining till morning.
2. It has been raining from morning.
3. It has been raining by morning.
4. It has been raining since morning.

Solution :

The correct answer is **Option 4.** i.e. **It has been raining since morning.**

The usage of the given words is:

- "**Since**" is used to indicate the point in time when an action started and is still continuing.
- "**Till**" is used to indicate the point in time when an action stops or ends.
- "**From**" is used to indicate the starting point of an action or event.
- "**By**" is used to indicate a deadline or a point in time when an action is expected to be completed.

Thus, the correct sentence is:

It has been raining since morning.

Question 5 :

How many maximum electrons can M shell have?

Difficulty : Moderate

Average Time : 68 Seconds

Options :

1. 14
2. 18
3. 36
4. 32

Solution :

The correct answer is **Option 2.** i.e. **18.**

**Question 6 :**

Which of the following statement is correct? I. The nutrition requirements of adolescents are higher than adult. II. Adolescents are generally grouped in the age group of 10 to 19 years.

Difficulty : Moderate

Average Time : 35 Seconds

Options :

1. Only II
2. Both I and II
3. Neither I nor II
4. Only I

Solution :

The correct answer is **Option 2.** i.e. **Both I and II.**

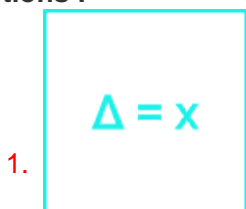
- The National Family Health Surveys (NFHS) in India apply adult cutoffs of nutritional status for the estimation of undernutrition/overweight in the 15–19 age group.
- The prevalence of thinness in boys and girls thus estimated is 58.1% and 46.8% in NFHS-3, and 45% and 42% in NFHS-4 respectively.
- But the WHO recommends using age and sex-specific reference for adolescents. We reanalyzed the nutritional status of the adolescents using the WHO 2007 Growth Reference to obtain revised estimates of thinness, overweight and stunting across states, rural-urban residence, and wealth quintiles.

Question 7 :

Select the figure that will come next in the following series.

Difficulty : Moderate

Average Time : 57 Seconds

Options :

2.

- 3. $= x \Delta$
- 4. $\Delta x =$

Solution :

$$\Delta x =$$

The correct answer is Option 3 i.e.

The logic used here is:

All three elements inside the square are shifting in the backward direction.

The series of figures is:

$\Delta x =$	$x = \Delta$	$= \Delta x$	$\Delta x =$
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Question 8 :

Study the given table and answer the question that follows. Find the difference between the number of female students and male students who opted biology in school C. School Name Total number of students enrolled Percentage of enrolled students, opted Biology Ratio of male to female students who opted biology A 900 30 7:8 B 400 38 9:10 C 1000 24 1:2 D 800 18 5:7



Difficulty : Moderate

Average Time : 76 Seconds

Options :

1. 240
2. 160
3. 200
4. 80

Solution :

The correct answer is **Option 4** i.e. **80**.

Calculations:

Total number of students in school C = 1000

Number of students who opted for biology = 24% of 1000 = 240

Let the number of male and female students who opted for biology be x and $2x$

Number of

Hence, required difference = $[240/(2x + x)] \times (2x - x)$

$[240/3x] \times x$

80

Question 9 :

In the following question, select the missing number from the given series. 111, 222, 444, ?, 1776, 3552

Difficulty : Moderate

Average Time : 47 Seconds

Options :

1. 999
2. 888
3. 1780
4. 1770

Solution :

The correct answer is **Option 2** i.e. **888**.



Given series: 111, 222, 444, ?, 1776, 3552

The series follows this pattern:

$$111 \times 2 = 222$$

$$222 \times 2 = 444$$

$$444 \times 2 = 888$$

$$888 \times 2 = 1776$$

$$1776 \times 2 = 3552$$

So, the missing term in the series is **888**.

Question 10 :

A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
ACC, UZD, OWE, ITF, ?

Difficulty : Moderate

Average Time : 44 Seconds

Options :

1. REN
2. CRM
3. CMR
4. CQG

Solution :

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

Given series: ACC, UZD, OWE, ITF, ?

The series follows this pattern:

ACC, UZD

$$A - 6 = U$$

$$C - 3 = Z$$

$$C + 1 = D$$

Similarly;



ITF, ?

I - 6 = C

T - 3 = Q

F + 1 = G

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

Question 11 :

In a certain code language, 'GHOST' is written as 'ONGCB', and 'ABIDE' is written as 'UTMRQ'. How will 'RULES' be written in that language?

Difficulty : Moderate

Average Time : 52 Seconds

Options :

1. DAKQD
2. DAJQD
3. DAJQC
4. WZQJX

Solution :

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

The logic used here is:

'GHOST' is written as 'ONGCB'

Opposite of G = T = T - 5 = O

Opposite of H = S = S - 5 = N

Opposite of O = L = L - 5 = G

Opposite of S = H = H - 5 = C

Opposite of T = G = G - 5 = B

'ABIDE' is written as 'UTMRQ'

Opposite of A = Z = Z - 5 = U

Opposite of B = Y = Y - 5 = T



Opposite of I = R = R - 5 = M

Opposite of D = W = W - 5 = R

Opposite of E = V = V - 5 = Q

Similarly;

Code for the word RULES:

Opposite of R = I = I - 5 = D

Opposite of U = F = F - 5 = A

Opposite of L = O = O - 5 = J

Opposite of E = V = V - 5 = Q

Opposite of D = H = H - 5 = C

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

Question 12 :

Which Part of the Constitution of India reflects the Fundamental Duties?

Difficulty : Moderate

Average Time : 87 Seconds

Options :

1. Part X
2. Part XII
3. Part IV-A
4. Part IX-B

Solution :

The correct answer is **Option 3**. i.e. **Part IV-A**.

- Part IVA of the Indian Constitution deals with Fundamental Duties. As of now, there are 11 Fundamental duties.
- The Fundamental Duties of citizens were added to the Constitution by the 42nd Amendment in 1976, upon the recommendations of the Swaran Singh Committee that was constituted by the government earlier that year.
- Fundamental duties are applicable only to citizens and not to the aliens.

Question 13 :

Who among the following is known as a pioneering dance educationist and a prominent Mohiniyattam exponent?



Difficulty : Moderate

Average Time : 57 Seconds

Options :

1. Madhavi Mudgal
2. Shagun Butani
3. Mohanrao Kallianpurkar
4. Dr Kanak Rele

Solution :

The correct answer is **Option 4**. i.e. **Dr Kanak Rele**.

- Dr. Kanak Rele, a world-renowned dancer and Mohiniyattam exponent.
- Dr. Rele established the Nalanda Dance Research Centre and the Nalanda Nritya Kala Mahavidyalaya, which pioneered dance research
- Dr. Rele has been awarded Sangeet Natak Akademi Award (1994), Padma Shri (1989), M. S. Subbulakshmi Award, Kalidas Samman (2006), Padma Bhushan (2013), and other honours during her nearly eight-decade-long dance career.

Question 14 :

According to Mendeleev's periodic table, what was the atomic mass of Eka-aluminium which was later replaced by Gallium?

Difficulty : Moderate

Average Time : 52 Seconds

Options :

1. 95
2. 83
3. 68
4. 50

Solution :

The correct answer is **Option 3**. i.e. **68**.

- The existence of gallium had been predicted in 1871 by Dmitri Mendeleev, the Russian chemist who published the

first periodic table of the elements.

- Mendeleev noted a gap in his table and named the missing element "eka-aluminum" because he determined that its location was one place away from aluminum in the table.

Question 15 :

What is the outermost layer found in the cell envelope of the bacterial cell called?

Difficulty : Moderate

Average Time : 46 Seconds

Options :

1. Glycocalyx
2. Cell membrane
3. Plasma membrane
4. Cytoplasm

Solution :

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

- The glycocalyx is a dense, gel-like meshwork that surrounds the cell, constituting a physical barrier for any object to enter the cell.
- For example, the glycocalyx was identified to play an important role to prevent the entry of pathogens into the cell.

Question 16 :

Which of the following Indian classical dance forms uses various colours on face to symbolise the characters?

Difficulty : Moderate

Average Time : 45 Seconds

Options :

1. Odissi
2. Kathakali
3. Bharatanatyam
4. Mohiniattam

Solution :

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

- Kathakali Dance is one of the popular classical dance forms in India.
- It is basically the dance form of south-western India, that is from Kerala.

It is one of the most vibrant dance forms as the dancer wears colourful and vibrant costumes, masks and so on while performing this dance form.

- Kathakali is mainly the depiction of a story by the dancer through his performance. It is mainly believed to have been derived from the temples and folk arts of south India.

Question 17 :

President Droupadi Murmu has appointed Dr. Justice Dhananjaya Yashwant Chandrachud as the _____ Chief Justice of India.

Difficulty : Moderate

Average Time : 57 Seconds

Options :

1. 50th
2. 51st
3. 48th
4. 49th

Solution :

The correct answer is **Option 1**. i.e. **50th**.

- Justice DY Chandrachud would be the 50th Chief Justice of India.
- Born in 1959, Justice Chandrachud was appointed Judge of the Supreme Court of India on 13th May 2016.
- Earlier, he served as Chief Justice of the Allahabad High Court. He had completed his LLB from Campus Law Centre from Delhi University and obtained LLM degree and a Doctorate in Juridical Sciences from Harvard Law School in USA.

Question 18 :

When did the Mongol ruler Genghis Khan die?

Difficulty : Moderate

Average Time : 50 Seconds

Options :

1. 1219
2. 1210
3. 1235
4. 1227

Solution :



The correct answer is **Option 4**. i.e. **1227**.

- By 1206, Temujin became the leader of a Mongol confederation and was given the title of 'Genghis Khan,' which means 'oceanic' ruler or 'universal' ruler.
- Genghis Khan had an extensive network of spies which used to detect his enemy's weaknesses. Using that, Khan attacked the enemy's defenses with as many as 2,50,000 cavalymen all at once.
- He died on August 18, 1227, at the age of 65.

Question 19 :

In 1955, which synthetic element is provisionally named Mendeleevium in honor of Dmitri Mendeleev, who created one of the first periodic tables?

Difficulty : Moderate

Average Time : 51 Seconds

Options :

1. Element 90
2. Element 101
3. Element 103
4. Element 106

Solution :

The correct answer is **Option 2**. i.e. **Element 101**.

- At atomic number 101, mendeleevium was a different type of element: the first of the trans-fermium elements.
- But to make it, Seaborg employed the same piece of equipment - the particle accelerator that had been used to chemically identify plutonium after it was discovered by Enrico Fermi during the Second World War.

Question 20 :

In Trans – Siberian railway system Vladivostoclies on _____ coast.

Difficulty : Moderate

Average Time : 45 Seconds

Options :

1. Atlantic
2. Antarctic
3. Arctic
4. Pacific

Solution :



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

- The Trans-Siberian railway connects St. Petersburg Western Russia to Vladivostok on the Pacific coast.
- It is Asia's most important route. Economic significance of Trans-Siberian railway is as follows:
 - It links the Asian region with the West European markets.
 - It runs across the Ural mountains where Chita is an agro centre and Irkutsk is a fur centre.
 - It has several other connecting links to . the South with other important cities of Asia.

Question 21 :

The crop area under high yielding varieties of which amongst the following crop grew considerably during the Green Revolution?

Difficulty : Moderate

Average Time : 56 Seconds

Options :

1. Sugarcane
2. Pulses
3. Oilseeds
4. Wheat

Solution :

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

- The crop area under high yielding varieties of wheat and rice grew considerably during the Green Revolution.
- The government introduced an intensive development programme in seven districts selected from seven States around 1966-67, known as Green Revolution in India.

Question 22 :

Who has become the 12th Chief minister of Uttarakhand?

Difficulty : Moderate

Average Time : 42 Seconds

Options :

1. Biren Singh
2. Pramod Sawant
3. Bhagwant Singh Mann
4. Pushkar Singh Dhama

**Solution :**

The correct answer is **Option 4. i.e. Pushkar Singh Dhami.**

- The oath-taking ceremony of Pushkar Singh Dhami as the 11th Chief Minister of Uttarakhand.
- The ceremony was scheduled to be attended by Prime Minister Narendra Modi, Home Minister Amit Shah, Defence Minister Rajnath Singh, and BJP President JP Nadda
- The ceremony was attended by the Uttar Pradesh Chief Minister Yogi Adityanath and his counterparts from Madhya Pradesh and Haryana.

Question 23 :

Which Article of the Constitution separates the judiciary from the executive?

Difficulty : Moderate

Average Time : 52 Seconds

Options :

1. Article 143
2. Article 50
3. Article 144
4. Article 74

Solution :

The correct answer is **Option 2. i.e. Article 50.**

- Article 50 is a part of the Directive Principles of State Policy (DPSPs) under Part IV of the Constitution.
- Article 50 of the Indian Constitution provides that in the State's public services, the State must take efforts to separate the judiciary from the executive.

Question 24 :

What do you call a component of identical size that offers a higher resistance to electricity?

Difficulty : Moderate

Average Time : 46 Seconds

Options :

1. Poor conductor
2. Semi- conductor
3. Good conductor



very good conductor

Solution :

The correct answer is **Option 1**. i.e. **Poor conductor**.

- Poor conductor of electricity includes materials like polymers, plastic, wood, glass, etc.
- A poor conductor is a material for which conductivity is low, yet sufficient to exhibit significant loss.

Question 25 :

In which of the following months did the Australian Open take place in 2022?

Difficulty : Moderate

Average Time : 43 Seconds

Options :

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

Solution :

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

- The 2022 Australian Open was the first Grand Slam tennis tournament of the year that took place at Melbourne Park, Australia from 17 to 30 January 2022.
- Novak Djokovic and Naomi Osaka were the 2021 champions in Men's Singles and Women's Singles, respectively.
- Djokovic was unable to participate in the tournament after his visa was cancelled by Australian Immigration Ministry.

Question 26 :

Which of the following is celebrated as the "Tibetan New Year"?

Difficulty : Moderate

Average Time : 50 Seconds

Options :

1. Lohang
2. Losar
3. Myoko
4. Murung

Solution :



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

- The Losar festival is celebrated as it marks the beginning of the new year for the Buddhist community. Hundreds of people gather in Ladakh's sacred sites for religious offerings to the protector of Dharma.
- Tibetans celebrate Losar with a three day festival of prayer, ceremonies, dancing, and family reunions. Traditional food is enjoyed and gifts are exchanged as a way to enjoy this special time of the year.

Question 27 :

Which layer of atmosphere helps in radio transmission?

Difficulty : Moderate

Average Time : 50 Seconds

Options :

1. Exosphere
2. Thermosphere
3. Mesosphere
4. Stratosphere

Solution :

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

- The thermosphere lies between the exosphere and the mesosphere. "Thermo" means heat, and the temperature in this layer can reach up to 4,500 degrees Fahrenheit.
- It contains electrically charged particles known as ions. It is therefore known as Ionosphere. The temperature here starts increasing with heights. Radio waves transmitted from the earth are reflected back to the earth by this layer.

Question 28 :

In Table Tennis, how many lets are allowed in a row on a serve?

Difficulty : Moderate

Average Time : 51 Seconds

Options :

1. Three
2. Unlimited
3. Two
4. One

Solution :



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

- There is no limit on how many lets the server can serve in a row.
- The receiver will then attempt to return the ball over or around the net so that it bounces first on the server's side of the table. If he cannot, the server wins the point.

Question 29 :

The value of GDP at the current prevailing prices is called _____.

Difficulty : Moderate

Average Time : 46 Seconds

Options :

1. nominal GDP
2. current GDP
3. domestic GDP
4. real GDP

Solution :

The correct answer is **Option 1. i.e. nominal GDP.**

- Nominal GDP is the market value of the final production of goods and services within a country in a given period using that year's prices (also called "current prices").
- Nominal GDP reflects the raw numbers in current dollars unadjusted for inflation.

Question 30 :

During which of the following period Ostriches were found in India?

Difficulty : Moderate

Average Time : 45 Seconds

Options :

1. Mesolithic
2. Chalcolithic
3. Neolithic
4. Palaeolithic

Solution :

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



Large quantities of ostrich egg shells found at Patne, Maharashtra give the evidence that ostriches lived in India during the Palaeolithic period.

- Designs were engraved on some pieces, while beads were also made out of their eggs.

Question 31 :

The Maharashtra Department of Prisons has launched a loan scheme for inmates serving sentences in jails across the state. This credit scheme is titled _____.

Difficulty : Moderate

Average Time : 46 Seconds

Options :

1. Jivhala
2. Kishore
3. Sukanya
4. Swavlamban

Solution :

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

- Jivhala, is a credit scheme that offers a loan of ₹1,50,000 to a felon at Yerwada Central jail in Pune, after being sentenced to life imprisonment.
- Jivhala scheme is a loan scheme named Jivhala launched by the Maharashtra Department of Prisons.
- It is for the inmates who are serving sentences in various jails across Maharashtra. The scheme, was implemented by the Department of Prisons and Maharashtra State Cooperative Bank.

Question 32 :

In which state is the Maihar court where Baba Allauddin Khan was a musician?

Difficulty : Moderate

Average Time : 53 Seconds

Options :

1. Tripura
2. Uttar Pradesh
3. Madhya Pradesh
4. Chhattisgarh

**Solution :**

The correct answer is **Option 3**. i.e. **Madhya Pradesh**.

- Recipient of Padma Bhushan in 1958, and the Padma Vibhushan in 1971, Baba Allauddin Khan was a musician of the Maihar court (gharana).
- Other prominent musicians from this gharana included the late Pandit Ravi Shankar and late Nikhil Banerjee.
- Baba Allauddin Khan invented musical instruments like the nal-tarang, jal-tarang and chandra-sarang, among others, despite the limited resources in a small town like Maihar.

Question 33 :

Which company has set up a factory on the banks of river Hugli in 1651?

Difficulty : Moderate

Average Time : 51 Seconds

Options :

1. Danish
2. Portuguese
3. English
4. French

Solution :

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

- The East India Company set up first English factory on the banks of the river Hugli in the year 1651.
- This was the base from which the company's traders, known at that time as 'factors' operated.
- As trade expanded, the company persuaded merchants and traders to come and settle near the factory.

Question 34 :

Select the option that can be used as a one-word substitute for the given group of words/phrase. Adjust or make right; correct, amend

Difficulty : Moderate

Average Time : 50 Seconds

Options :

1. Recruit
2. Recreate
3. Recourse
4. Rectify

Solution :

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

The meaning of the given words is:

- **Rectify**: Rectify means to correct or fix something that is wrong or mistaken. It is often used to describe the process of identifying and resolving errors or problems.
- **Recruit**: Recruit means to enlist or hire someone to join an organization or company. It is often used in the context of job interviews, hiring processes, or military enlistment.
- **Recreate**: Recreate means to create something again or to make a new version of something that already exists. It can also mean to engage in leisure activities that involve relaxation or fun, such as going on a vacation or playing sports.
- **Recourse**: Recourse means the act of turning to something or someone for help or support. It can also refer to a legal or formal action that is taken in order to solve a problem or address an issue.

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

Question 35 :

Select the most appropriate option that can substitute the underlined segment in the given sentence. Our office is in the 2nd floor of the skyscraper.

Difficulty : Moderate

Average Time : 85 Seconds

Options :

1. is for the 2nd floor
2. is on the 2nd floor
3. is with the 2nd floor
4. is at the 2nd floor

Solution :

The correct answer is **Option 2**. i.e. **is on the 2nd floor**.

- The given question is asking the reader to choose the most suitable option that can replace the underlined segment in the given sentence.
- The sentence is written in the present tense and uses the preposition "in" to indicate the location of the office.
- The article "the" is used before "2nd floor of the skyscraper" to indicate that the writer is referring to a specific



location rather than any 2nd floor in any skyscraper.

- This sentence retains the present tense and the preposition "on" is used instead of "in," which also accurately conveys the location of the office.

Therefore, a possible way to rephrase this sentence using one of the options would be:

"Our office is **on the 2nd floor** of the skyscraper."

Question 36 :

Select the option that can be used as a one-word substitute for the given group of words. Having or showing an excessively high opinion of one's appearance, abilities, or worth

Difficulty : Moderate

Average Time : 85 Seconds

Options :

1. Superior
2. Vain
3. Otiose
4. Domineering

Solution :

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

The meaning of the given words is:

- **Vain:** Vain can refer to a person who is excessively proud or self-centered and has an exaggerated sense of their own importance, abilities, or appearance.
- **Superior:** Superior can refer to a person or thing that is higher in rank, status, quality, or authority than others.
- **Otiose:** Otiose refers to something that is futile, ineffective, or serving no useful purpose.
- **Domineering:** Domineering refers to a person who is excessively controlling, overbearing, or tyrannical, and uses their power or authority to intimidate or manipulate others.

Thus, the most appropriate one word substitute for the given set of words is **Domineering**.

Question 37 :

Select the most appropriate option to complete the given sentence. One must learn to _____ a line between one's private and professional life.

Difficulty : Moderate

Average Time : 71 Seconds



Options :

1. draw
2. catch
3. bring
4. get

Solution :

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

- The sentence is asking the reader to select the correct verb from the given options that appropriately fills the blank and completes the sentence.
- The sentence is written in the infinitive form, which means that the verb is not being used in any particular tense or subject-verb agreement.
- The correct answer is "draw," which means to create, establish or define something, such as a line or boundary.
- In this sentence, "drawing a line" refers to creating a clear separation between one's personal and professional life.

Therefore, the completed sentence reads:

*One must learn to **draw** a line between one's private and professional life.*

Question 38 :

Select the option that can be used as a one-word substitute for the given group of words. The date when both, day and night are of approximately equal length

Difficulty : Moderate

Average Time : 70 Seconds

Options :

1. Equilibrium
2. Equine
3. Equator
4. Equinox

Solution :

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

The meaning of the given words is:



Equinox: An equinox is a moment in time when the center of the sun is directly above the Earth's equator, resulting in nearly equal amounts of daylight and darkness across the globe.

- **Equilibrium:** Equilibrium refers to a state of balance or stability between two or more opposing forces, factors, or systems.
- **Equine:** The term "equine" refers to anything related to horses or other members of the horse family, such as donkeys and zebras.
- **Equator:** The equator is an imaginary line that circles the Earth at 0° latitude, dividing the planet into the Northern Hemisphere and Southern Hemisphere.

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

Question 39 :

Select the most appropriate meaning of the given idiom. Beat around the bush

Difficulty : Moderate

Average Time : 72 Seconds

Options :

1. Avoid praising someone and demean
2. Avoid the main point by talking in a roundabout way
3. Avoid saying what you mean, usually because it is not funny
4. Avoid using foul words to make someone uncomfortable

Solution :

The correct answer is **Option 2**. i.e. **Avoid the main point by talking in a roundabout way**.

- The idiom "beat around the bush" means to avoid discussing the main topic or issue, usually by talking in circles or using indirect language.
- It can also refer to delaying or avoiding a decision or action by not addressing the matter directly.

Thus, the most appropriate choice among the given options is "**Avoid the main point by talking in a roundabout way**."

Question 40 :

Select the INCORRECTLY spelt word.

Difficulty : Moderate

Average Time : 59 Seconds

Options :

1. Belief



Beneth

3. Belly

4. Below

Solution :

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

The correct spelling and meaning of the given words is:

- **Beneath:** At a lower level or position than something else, or situated underneath or below something.
- **Belief:** A conviction or acceptance that something is true or real, often without proof or evidence.
- **Belly:** The soft, protruding part of the human body between the chest and pelvis that contains digestive organs and other important structures.
- **Below:** At a lower level, position, or rank than something else, or being underneath or under something.

Question 41 :

Select the most appropriate ANTONYM of the underlined word. Regardless of their diversity, all flowers have a uniform function, the reproduction of the species through the production of seed.

Difficulty : Moderate

Average Time : 67 Seconds

Options :

1. Melancholy
2. Equilibrium
3. Affinity
4. Uniformity

Solution :

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

The meaning of the given words is:



Diversity: the state or quality of being different or varied.

- **Uniformity:** the state or quality of being uniform or consistent.
- **Melancholy:** a feeling of pensive sadness, typically with no obvious cause.
- **Equilibrium:** a state in which opposing forces or influences are balanced.
- **Affinity:** a natural liking or sympathy for someone or something.

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

Question 42 :

Select the most appropriate synonym of the underlined word in the following sentence. Visiting a book fair always fills my heart with a great satisfaction.

Difficulty : Moderate

Average Time : 61 Seconds

Options :

1. refreshment
2. pride
3. contentment
4. bliss

Solution :

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

The meaning of the given words is:

- **Satisfaction:** the feeling of pleasure or contentment that comes from achieving or obtaining what one desires or expects.
- **Contentment:** a state of happiness and satisfaction, often accompanied by a sense of ease or peacefulness.
- **Refreshment:** the act of restoring or renewing one's energy or strength, often by consuming food or drink.
- **Pride:** a feeling of satisfaction and fulfillment that arises from one's achievements, abilities, or possessions.
- **Bliss:** a state of extreme happiness or joy, often associated with a sense of peace and harmony.

Thus, the most appropriate synonym for the given word is **Contentment**.

Question 43 :

Select the correct active form of the given sentence. Was the message given by him?

Difficulty : Moderate

Average Time : 67 Seconds

Options :



Was he given the message?

- Does he give the message?
- Did he gave the message?
- Did he give the message?

Solution :

The correct answer is **Option 4.** i.e. **Did he give the message?**

- To convert the given sentence from passive voice to active voice, we need to identify the subject, verb, and object in the sentence and rewrite it in a way that the subject performs the action on the object.
- In this case, the subject is "the message," the verb is "given," and the object is "him."
- To convert it into active voice, we need to make "him" the subject and "message" the object. We also need to change the verb tense to match the new subject.

The sentence in active voice would be:

Did he give the message?

Question 44 :

Select the most appropriate synonym of the given word. Deliberate

Difficulty : Moderate

Average Time : 68 Seconds

Options :

- Casual
- Hasty
- Planned
- Rushed

Solution :

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

The meaning of the given words is:

- Deliberate:** done intentionally or after careful consideration; to think over something carefully before making a decision or taking an action.
- Planned:** done with a clear and organized method or strategy; pre-arranged with a specific goal or objective.



Casual: done without much thought, care or attention; not planned or premeditated.

- **Hasty:** done quickly, with little thought or planning, often resulting in mistakes or carelessness.
- **Rushed:** done in a hurry or with great urgency, often resulting in a lack of attention to detail.

Thus, the most appropriate synonym for the given word is **Planned**.

Question 45 :

Select the correct indirect form of the given sentence. She said, "She must leave all the bad habits."

Difficulty : Moderate

Average Time : 68 Seconds

Options :

1. She said she has to leave all the bad habits
2. She said that she must have leave all the bad habits
3. She said that she had to leave all the bad habits
4. She said that she could leave all the bad habits

Solution :

The correct answer is **Option 3**. i.e. **She said that she had to leave all the bad habits**.

To convert the given sentence into its indirect form, the following rules are followed:

- Remove the quotation marks from the sentence.
- Replace the reporting verb "said" with a suitable reporting verb such as "informed," "told," or "advised."
- Change the tense of the reported speech according to the rules of sequence of tenses. In this case, since the reporting verb is in the past tense, the tense of the reported speech (i.e., "must leave") will change to the past tense ("had to leave").
- Change the pronouns and possessive adjectives in the reported speech to reflect the perspective of the person reporting the speech.

Thus, the correct indirect form of the given sentence is:

She said that she had to leave all the bad habits.

Question 46 :

Select the most appropriate synonym of the given word. Magnify

Difficulty : Moderate

Average Time : 85 Seconds



Options :

1. Expand
2. Magnanimous
3. Miniature
4. Underemphasise

Solution :

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

The meaning of the given words is:

- **Magnify**: To make something appear larger than it actually is or to intensify or exaggerate its importance.
- **Expand**: To make something larger in size or scope, to broaden or extend.
- **Magnanimous**: Showing generosity, kindness, or forgiveness, especially towards a rival or someone less powerful.
- **Miniature**: A small version of something that is usually much larger in size or scale.
- **Underemphasise**: To give less importance or emphasis to something than it deserves.

Thus, the most appropriate synonym for the given word is **Expand**.

Question 47 :

Choose the incorrectly spelt word.

Difficulty : Moderate

Average Time : 61 Seconds

Options :

1. Clemency
2. Avariciuos
3. Hegemony
4. Nostalgic

Solution :

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

The correct spelling and meaning of the given words are:

- **Avaricious**: Having an extreme desire for wealth or material gain; greedy.
- **Clemency**: Mercy or leniency shown towards someone who is guilty of a wrongdoing.
- **Hegemony**: Leadership or dominance, especially by one country or social group over others.
- **Nostalgic**: Feeling a sentimental longing or wistful affection for the past, typically for a period or place with happy

personal associations

Question 48 :

Select the option that expresses the given sentence in passive voice. All his friends laughed at him

Difficulty : Moderate

Average Time : 58 Seconds

Options :

1. He became laughable to his friends.
2. He was laughed at by all his friends
3. His friends were being laughed at by him.
4. All his friends were laughing at him.

Solution :

The correct answer is **Option 2**. i.e. **He was laughed at by all his friends**.

To convert the given sentence into the passive voice, follow these rules:

- Move the object of the active sentence (him) to the subject position of the passive sentence.
- Add a form of the verb "to be" (in this case, "was") and a past participle of the main verb (in this case, "laughed").
- Add the preposition "at" followed by the subject of the active sentence (in this case, "him").

The resulting passive sentence is:

He was laughed at by all his friends.

Question 49 :

Select the option that can be used as a one-word substitute for the given group of words. One who has the ability to do many different things

Difficulty : Moderate

Average Time : 73 Seconds

Options :

1. Versatile



Adaptable

3. Expert

4. Specialist

Solution :

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

The meaning of the given words is:

- **Versatile**: able to adapt or be adapted to many different functions or activities.
- **Adaptable**: able to adjust oneself readily to different conditions.
- **Expert**: having comprehensive and authoritative knowledge of or skill in a particular area.
- **Specialist**: a person highly skilled in a specific and restricted field.

Thus, the most appropriate one word substitute for the given set of words is **Versatile**.

Question 50 :

Rearrange the parts of the sentence in correct order. There are P. reports that toy shops and other Q. to prepare for the Christmas rush R. non-food retailers are struggling to S. get enough stock into their warehouses

Difficulty : Moderate

Average Time : 63 Seconds

Options :

1. RPSQ
2. PRSQ
3. SQRP
4. QRPS

Solution :

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

- The original sentence is a bit jumbled and does not follow a clear structure.
- The corrected sentence follows a more logical order of information, starting with the subject "there are reports" and then providing more details about what those reports are saying.
- The verb phrase "are struggling to get enough stock" is placed closer to the subject it relates to, "non-food retailers," and the information about specific types of non-food retailers, such as toy shops, is included at the end.

Thus, the corrected sentence would be:

There are reports that non-food retailers are struggling to get enough stock into their warehouses to prepare for the

Christmas rush, including toy shops and other.

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. Memory loss, with aging, is (1)_____ a natural and normal (2)_____. The symptoms range from forgetting simple daily life activities and (3)_____ familiar tasks such as driving or baking. However, there can be several other factors (4)_____ for it and these vary from person to person. Memory loss can be (5)_____ or total depending upon the condition.

Question 51 :

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

Difficulty : Moderate

Average Time : 87 Seconds

Options :

1. consider
2. denied
3. regard
4. considered

Solution :

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

- The sentence expresses that memory loss is a natural and normal occurrence with aging.
- The most appropriate option to fill in the blank is "considered," which means to be viewed or thought of in a particular way.

Thus, the sentence would read:

*Memory loss, with aging, is **considered** a natural and normal process.*

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. Memory loss, with aging, is (1)_____ a natural and normal (2)_____. The symptoms range from forgetting simple daily life activities and (3)_____ familiar tasks such as driving or baking. However, there can be several other factors (4)_____ for it and these vary from person to person. Memory loss can be (5)_____ or total depending upon the condition.

Question 52 :

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



Difficulty : Moderate

Average Time : 71 Seconds

Options :

1. trial
2. type
3. method
4. process

Solution :

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

- The word "process" refers to a gradual change that occurs over time, which is an accurate description of memory loss with aging.
- "Trial" and "type" do not accurately describe the natural process of aging, and "method" refers to a specific way of doing something, which is not relevant to the context of memory loss with aging.
- Thus, **process** will be the most accurate filler for the given blank.

Therefore, the correct sentence is:

*Memory loss, with aging, is considered a natural and normal **process**.*

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. Memory loss, with aging, is (1)_____ a natural and normal (2)_____. The symptoms range from forgetting simple daily life activities and (3)_____ familiar tasks such as driving or baking. However, there can be several other factors (4)_____ for it and these vary from person to person. Memory loss can be (5)_____ or total depending upon the condition.

Question 53 :

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

Difficulty : Moderate

Average Time : 81 Seconds

Options :

1. prospering
2. acknowledging
3. rectifying
4. performing

**Solution :**

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

- The sentence suggests that memory loss can cause a person to forget simple daily life activities and have difficulty performing familiar tasks such as driving or baking.
- However, the sentence suggests that sometimes memory loss can be severe enough to cause difficulty in performing even the most basic tasks.
- This could be due to a variety of factors, including aging, illness, injury, or other underlying conditions.
- The correct option to fill in the blank is "performing."

Thus, the correct sentence is:

The symptoms range from forgetting simple daily life activities and **performing** familiar tasks such as driving or baking.

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. Memory loss, with aging, is (1)_____ a natural and normal (2)_____. The symptoms range from forgetting simple daily life activities and (3)_____ familiar tasks such as driving or baking. However, there can be several other factors (4)_____ for it and these vary from person to person. Memory loss can be (5)_____ or total depending upon the condition.

Question 54 :

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

Difficulty : Moderate

Average Time : 85 Seconds

Options :

1. commendable
2. responsible
3. affluent
4. significance

Solution :

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

- The word "responsible" fits in the blank space in the sentence to convey a coherent meaning.
- The sentence talks about there being several other factors responsible for something, meaning that these factors



are accountable or in charge of the situation.

- The options "commendable," "affluent," and "significance" do not fit in the blank space as they do not convey the intended meaning of being accountable or responsible.

Thus, the correct sentence is:

*However, there can be several other factors **responsible** for it and these vary from person to person.*

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. Memory loss, with aging, is (1)_____ a natural and normal (2)_____. The symptoms range from forgetting simple daily life activities and (3)_____ familiar tasks such as driving or baking. However, there can be several other factors (4)_____ for it and these vary from person to person. Memory loss can be (5)_____ or total depending upon the condition.

Question 55 :

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

Difficulty : Moderate

Average Time : 82 Seconds

Options :

1. **partial**
2. **partially**
3. **completely**
4. **incomplete**

Solution :

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

- The sentence is discussing the different degrees of memory loss, which can either be partial (meaning not complete or whole) or complete (meaning entire or total).
- The options "partially" and "incomplete" do not fit the sentence as they suggest only a partial memory loss, whereas the sentence specifies that memory loss can also be complete.
- The option "completely" is close, but not correct, as it suggests only complete memory loss and does not encompass the possibility of partial memory loss.
- Therefore, the correct answer is "partial".

Thus, the correct sentence is:



Memory loss can be **partial** or total depending upon the condition.

Question 56 :

Merchants and migrants first brought the teachings of the holy Quran to India in the _____ century.

Difficulty : Moderate

Average Time : 66 Seconds

Options :

1. fourth
2. seventh
3. ninth
4. sixth

Solution :

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

- Merchants and migrants first brought the teachings of the Holy Quran to India in the seventh century.
- The Arab traders who brought the teachings of the holy Quran to India were not just merchants, but also migrants.
- They settled in different parts of the country, and their presence led to the establishment of Islamic centers of learning and places of worship.

Question 57 :

Based on the position in the English alphabetical order, three of the following letterclusters are alike in some manner and one is different. Select the odd letter-cluster.

Difficulty : Moderate

Average Time : 54 Seconds

Options :

1. IDAY
2. SNJH
3. QLHF
4. VQMK

Solution :

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

The logic used here is:



1st letter - 5 = 2nd letter

2nd letter - 4 = 3rd letter

3rd letter - 2 = 4th letter

Option 1: IDAY

I - 5 = D

D - 4 = Z

A - 2 = Y

This does not follow the logic.

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

Question 58 :

By interchanging the given two signs and numbers which of the following equation will be correct? + and -, 2 and 4

Difficulty : Moderate

Average Time : 51 Seconds

Options :

1. $9 - 5 \div 4 \times 2 + 8 = 80$

2. $7 \times 4 - 2 \div 1 + 5 = 13$

3. $7 - 8 \div 2 + 16 \times 4 = 18$

4. $5 + 7 \times 4 - 8 \div 2 = 5$

Solution :

The correct answer is **Option 2** i.e. $7 \times 4 - 2 \div 1 + 5 = 13$.

Given conditions: + and -, 2 and 4

Option 1: $9 - 5 \div 4 \times 2 + 8 = 80$

After interchanging the expression becomes:

$$= 9 + 5 \div 2 \times 4 - 8 = 80$$

= 11 is not equal to 80.

Option 2: $7 \times 4 - 2 \div 1 + 5 = 13$

After interchanging the expression becomes:

$$= 7 \times 2 + 4 \div 1 - 5 = 13$$

$$= 7 \times 2 + 4 - 5$$

$$= 14 + 4 - 5$$

$$= 18 - 5$$

$$= 13 \text{ is equal to } 13.$$

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

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

Question 59 :

R + S means 'R is the daughter of S' R = S means 'R is the father of S' R ÷ S means 'R is the wife of S' R × S means 'R is the brother of S' E ÷ F × J + L = M, then how is L related to E?

Difficulty : Moderate**Average Time : 76 Seconds****Options :**

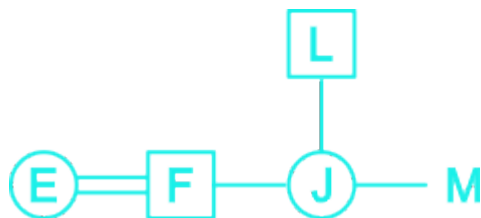
1. Father
2. Wife
3. Father-in-law
4. Brother

Solution :

The correct answer is **Option 3** i.e. **Father-in-law**.

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, L is the father-in-law of E.

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

**Question 60 :**

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. 8: 496::? : 204:: 9: 711

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

1. 5
2. 13
3. 6
4. 11

Solution :

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

The logic used here is:

8: 496

$$8^3 = 512$$

$$512 - (8 \times 2) = 512 - 16 = 496$$

9: 711

$$9^3 = 729$$

$$729 - (9 \times 2) = 729 - 18 = 711$$

Similarly,

? : 204

$$6^3 = 216$$

$$216 - (6 \times 2) = 204 - 12 = 204$$

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

Question 61 :

Select the set in which the numbers are related in the same way as the numbers of the following set. (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). (25, 9, 56) (13, 14, 183)



Difficulty : Moderate

Average Time : 61 Seconds

Options :

1. (42, 12, 228)
2. (11, 16, 135)
3. (19, 23, 511)
4. (27, 15, 198)

Solution :

The correct answer is **Option 4** i.e. (27, 15, 198).

The logic used here is:

$$(25, 9, 56)$$

$$25 + 56 = 81$$

$$9^2 = 81$$

$$(13, 14, 183)$$

$$13 + 183 = 196$$

$$14^2 = 196$$

Similarly,

$$(27, 15, 198)$$

$$27 + 198 = 225$$

$$15^2 = 225$$

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

Question 62 :

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

Difficulty : Moderate

Average Time : 44 Seconds

Options :

1.

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

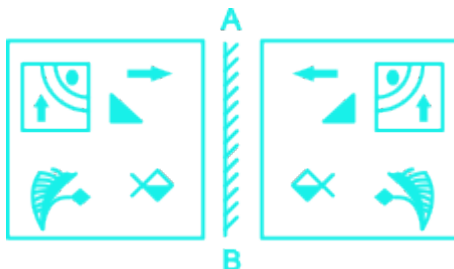


Solution :



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 63 :

Select the correct combination of mathematical signs to sequentially replace the * signs and balance the given equation.

$$17 * 11 * 42 * 2 * 7 = 18$$

Difficulty : Moderate

Average Time : 73 Seconds

Options :

1. -, +, ÷, ÷

2. -, +, ×, ÷

3. -, +, ×, ×

4. +, -, +, ×

Solution :

The correct answer is **Option 2** i.e. -, +, ÷, ÷.

Given equation: $17 * 11 * 42 * 2 * 7 = 18$

Option 1: -, +, ÷, ÷

After interchanging the expression becomes:

$$= 17 - 11 + 42 \div 2 \div 7 = 18$$

$$= 17 - 11 + 21 \div 7$$

$$= 17 - 11 + 3$$

$$= 9 \text{ is not equal to } 18.$$

Option 2: -, +, ×, ÷

After interchanging the expression becomes:

$$= 17 - 11 + 42 \times 2 \div 7 = 18$$

$$= 18 \text{ is equal to } 18$$

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

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

Question 64 :

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 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 : 86 Seconds

Options :

1. 3 – 44
2. 4 – 64
3. 5 – 125
4. 6 – 216

Solution :

The correct answer is **Option 1** i.e. 3 – 44.

The logic used here is:

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

Option 1: 3 -44

$$3^3 = 27$$

This does not follow the logic.

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

Question 65 :

By interchanging the given two signs which of the following equation will be not correct? + and –

Difficulty : Moderate

Average Time : 45 Seconds

Options :

1. $18 \div 3 + 8 \times 5 - 4 = 30$
2. $4 \times 6 + 7 - 3 \div 1 = 20$
3. $18 + 8 \times 6 \div 3 - 11 = 13$



$$6 \times 9 + 7 - 8 \div 2 = 51$$

Solution :

The correct answer is **Option 1** i.e. $18 \div 3 + 8 \times 5 - 4 = 30$.

Given conditions: + and -

Option 1: $18 \div 3 + 8 \times 5 - 4 = 30$

After interchanging the expression becomes:

$$= 18 \div 3 - 8 \times 5 + 4 = 30$$

$$= 6 - 8 \times 5 + 4$$

$$= 6 - 40 + 4$$

$$= -30 \text{ is equal to } 30.$$

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

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

Question 66 :

Which letter cluster will replace the question mark (?) to complete the given series? CZNM, FXOL, IVPK, ?, ORRI

Difficulty : Moderate

Average Time : 55 Seconds

Options :

1. LSQJ
2. LTRK
3. LSQK
4. LTQJ

Solution :

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

Given series: CZNM, FXOL, IVPK, ?, ORRI

The series follows this pattern:

CZNM, FXOL

$$C - 3 = F$$



$$Z - 2 = X$$

$$N + 1 = O$$

$$M - 1 = L$$

Similarly;

$$IVPK, ?$$

$$I - 3 = L$$

$$V - 2 = T$$

$$P + 1 = Q$$

$$K - 1 = J$$

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

Question 67 :

If $A + B$ means that A is the brother of B, $A \times B$ means that A is the sister of B, $A \div B$ means that A is the father of B. Then which of the following expression shows that P is the brother of R?

Difficulty : Moderate

Average Time : 61 Seconds

Options :

1. $P + Q \div R$
2. $P + Q \times R$
3. $P \times Q + R$
4. $P + R \times Q$

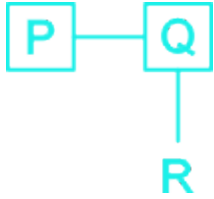
Solution :

The correct answer is **Option 2** i.e. $P + Q \times R$.

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: $P + Q \div R$



From the above figure, P is the uncle of R.

Option 2: P + Q × R



From the above figure, P is the brother of R.

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

Question 68 :

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

Difficulty : Moderate

Average Time : 71 Seconds

Options :

1. EDCVJQ
2. FDCVJQ
3. EDCVJQ
4. EDCVJQ

Solution :

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

The mirror image of the question figure is shown below:



Since the mirror is placed at the bottom of the question figure, the top side of the original image will be now the bottom side of the mirror image.

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

Question 69 :

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: All bears are rabbits. All rabbits are dogs. Some dogs are black. Conclusions. I- Some rabbits are black. II- Some dogs are bears. III- All bears are dogs

Difficulty : Moderate

Average Time : 88 Seconds

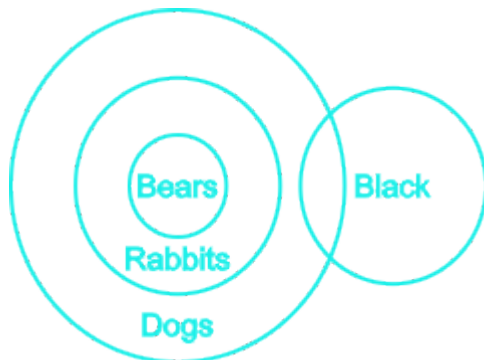
Options :

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

Solution :

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

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



Conclusions:

- I. Some rabbits are black **False** (It is possible, but no definite conclusion can be drawn.)
- II. Some dogs are bears **True** (As all bears are rabbits, and all rabbits are dogs, so some dogs are bears is also true.)
- III. All bears are dogs **True** (As all bears are rabbits, and all rabbits are dogs, so all bears are dogs is true.)

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

Question 70 :

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.) Cloth: Closet:: Gun:?



Difficulty : Moderate

Average Time : 84 Seconds

Options :

1. Armory
2. Almirah
3. Bullet
4. Chest

Solution :

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

The logic used here is:

Cloth: Closet

Clothes are kept in a closet.

Similarly,

Gun:?

Guns are kept in an armory.

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

Question 71 :

Select the set in which the numbers are related in the same way as the numbers of the following sets. (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) (30, 93, 1) (42, 132, 2)

Difficulty : Moderate

Average Time : 57 Seconds

Options :

1. (4, 60, 5)
2. (5, 31, 29)
3. (14, 20, 25)
4. (3, 30, 7)

Solution :



The correct answer is **Option 4** i.e. **(3, 30, 7)**.

The logic used here is:

(30, 93, 1)

$30 + 1 = 31$

$31 \times 3 = 93$

(42, 132, 2)

$42 + 2 = 44$

$44 \times 3 = 132$

Similarly,

(3, 30, 7)

$3 + 7 = 10$

$10 \times 3 = 30$

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

Question 72 :

Select the word pair that best represents a similar relationship to the one expressed in the pair of words given below. (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.) Sparrows: Tree

Difficulty : Moderate

Average Time : 52 Seconds

Options :

1. Cow: Beach
2. Fish: Water
3. Owl: Night
4. Rabbit: Sand

Solution :

The correct answer is **Option 2** i.e. **Fish: Water**.

The logic used here is:

Sparrows: Tree

Sparrows live in the trees.

Similarly,

Fish: Water

Fish lives in the water.

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

Question 73 :

Three different positions of the same dice are shown. Find the number on the face opposite the face showing '3'.

Difficulty : Moderate

Average Time : 45 Seconds

Options :

1. 5
2. 4
3. 1
4. 6



Solution :

The correct answer is **Option 3** i.e. 1.

In the first and second dice, 3 and 4 are common. So, the remaining face will be opposite to each other. Hence, 1 is opposite to 6.

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

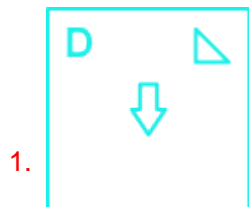
Question 74 :

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

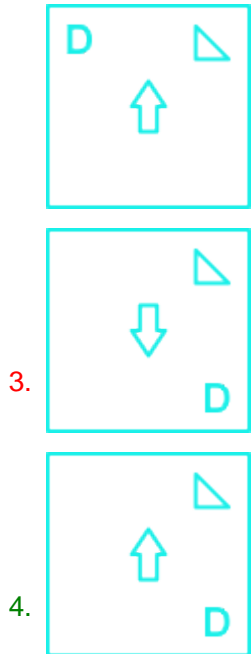
Difficulty : Moderate

Average Time : 41 Seconds

Options :



2.



Solution :

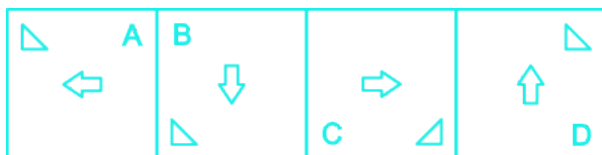


The correct answer is **Option 4** i.e.

The logic used here is:

1. The triangle is moving in an anticlockwise direction.
2. The arrow is rotating in the same position in an anticlockwise direction.
3. The letter is replaced by the next letter in the English alphabetical series and is moving in the anticlockwise direction.

The series of figures is:



Question 75 :

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. Some L are R. II. Some A are R. Conclusion: I. All A are L. II. All R are L.

Difficulty : Moderate

Average Time : 90 Seconds

Options :

1. Only conclusion I follows
2. Neither conclusion follows
3. Only conclusion II follows
4. Both conclusions I and II follows

Solution :

The correct answer is **Option 2** i.e. **Neither conclusion follows**.

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



Conclusions:

- I. All A are L **False** (It is possible, but no definite conclusion can be drawn).
II. All R are L **False** (It is possible, but no definite conclusion can be drawn).

Hence, **Neither conclusion follows**.

Question 76 :

If the ratio of corresponding sides of two similar triangles is $3\sqrt{2}$ then what is the ratio of the area of the two triangles?

Difficulty : Moderate

Average Time : 63 Seconds

Options :

1. $3 : 2$
2. $9 : 4$
3. $3\sqrt{2} : 2$
4. $27 : 8$

Solution :



The correct answer is **Option 1** i.e. **3 : 2**.

Concept used:

Area of the triangle is directly proportional to the square of the corresponding sides.

Calculations:

$$\text{Ratio of the area of two triangles} = (3)^2 \hat{=} (2)^2$$

3 : 2

Question 77 :

In a certain code language, 'EARLY' is written as 'ZNSCF', and 'GAUGE' is written as 'FIVCH'. How will 'INBOX' be written in that language?

Difficulty : Moderate

Average Time : 45 Seconds

Options :

1. YQCQJ
2. JPCQY
3. YQCPJ
4. XPBOI

Solution :

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

The logic used here is:

'EARLY' is written as 'ZNSCF'

First, reverse the code.

EARLY = FCSNZ

E + 1 = F

A + 2 = C

R + 1 = S

L + 2 = N

Y + 1 = Z



'GAUGE' is written as 'FIVCH'

$$G + 1 = H$$

$$A + 2 = C$$

$$U + 1 = V$$

$$G + 2 = I$$

$$E + 1 = F$$

Similarly;

Code for the word INBOX:

$$I + 1 = J$$

$$N + 2 = P$$

$$B + 1 = C$$

$$O + 2 = Q$$

$$X + 1 = Y$$

$$\text{INBOX} = \text{YQCPJ}$$

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

Question 78 :

After arranging the given words according to dictionary order, which word will come in the 'Third' position? 1. Sickle 2. Sickly 3. Sick 4. Sicken 5. Sickness

Difficulty : Moderate

Average Time : 65 Seconds

Options :

1. Sick
2. Sickle
3. Sicken
4. Sickly

Solution :

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



In this question, you need to arrange the words as they would appear in the English dictionary and then find the word which will come in the third position.

1. Sick
2. Sicken
3. Sickle
4. Sickly
5. Sickness

Hence, the word that comes in the third position is 'Sickle.'

Question 79 :

Various expenditures incurred by publishing company for publishing a book in 2018 are given in the following pie-chart. Study the chart and answer the question. Price printed on a book is 15% above the cost price. If the price printed on a book is Rs. 942, then the cost of paper for a single copy Rs. is (rounded off to one decimal place).

Difficulty : Moderate

Average Time : 61 Seconds

Options :

1. Rs.122.9
2. Rs.188.5
3. Rs.182.5
4. Rs.220.6

Solution :

The correct answer is **Option 1** i.e. **Rs.122.9**.

Calculations:

Let the cost of the book be $100x$.

Marked price of the book = 115% of $100x = 115x$

According to the question;

$$115x = 942$$

$$x = 8.1913$$

Cost price of the book = $100x = 819.13$



Cost of paper = 15% of 819.13 = Rs 122.9

Question 80 :

In a 100-m race, A beats B by 20 m and B beats C by 20 m. By how much distance does A beat C.

Difficulty : Moderate

Average Time : 48 Seconds

Options :

1. 64 m
2. 24 m
3. 25 m
4. 36 m

Solution :

The correct answer is **Option 4** i.e. **36 m**.

Calculations:

According to the question;

When A covers 100 m, B covers 80 m and when B covers 100 m, C covers 80 m

Hence, the distance ratio of A to B = 10 : 8

The distance ratio of B to C = 10 : 8

Equating eq(1) \times 10 and eq(2) \times 8, we get

A : B : C = 100 : 80 : 64

Therefore, A beats C by = 100 - 64 = 36 m

Question 81 :

If one man or two women or four boys or five girls can finish a work in 39 days, then how many days will one man, one woman, one boy and one girl together take to finish the same work?

Difficulty : Moderate

Average Time : 57 Seconds

Options :

1. 40
2. 10



30

4. 20

Solution :

The correct answer is **Option 4** i.e. **20**.

Calculations:

Let the men, women, boys and girls be M, W, B and G

According to the question;

$$1M = 2W = 4B = 5G$$

Ratio of efficiency of M : W : B : G = 20 : 10 : 5 : 4

Total work = $1 \times 20 \times 39$

Required number of days = $(1 \times 20 \times 39)/(20 + 10 + 5 + 4) = (20 \times 39)/39 = 20$

Question 82 :

In triangle PQR, right angled at Q, if $(\cot P = \sqrt{3})$, then the value of $\sin P$ is:

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

1. 1
2. $\frac{1}{\sqrt{3}}$
3. $\frac{\sqrt{3}}{2}$
4. $\frac{1}{2}$

Solution :

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

Concept used:

$\cot P = \text{base/perpendicular}$

$\sin P = \text{perpendicular/hypotenuse}$

Calculations:



According to the question;

Base = 3 and perpendicular = 1

Using pythagoras theorem, we get

Hypotenuse = 2

Now, $\sin P = 1/2$

Question 83 :

The difference of two numbers is 1564. After dividing the larger number by the smaller, we get 6 as quotient and 19 as remainder. What is the smaller number?

Difficulty : Moderate

Average Time : 57 Seconds

Options :

1. 456
2. 287
3. 623
4. 309

Solution :

The correct answer is **Option 4** i.e. **309**.

Given:

The difference of two numbers is 1564.

Formula used:

$$D = d \times q + r$$

Where, D = Dividend, d= Divisor q = Quotient and r = Remainder

Calculation:

Let the larger number be x and the smaller number be y

$$\text{So, } x - y = 1564 \text{ ----(1)}$$

$$\text{Again, } x = (y \times 6) + 19 = 6y + 19 \text{ ----(2)}$$

Using the value of 'x' from eq(2) in eq(1)



$$(6y + 19) - y = 1564$$

$$5y = 1545$$

$$y = 1545/5 = 309$$

Hence, the smaller number = 309

Question 84 :

If $a + b + c = 6$, $a^2 + b^2 + c^2 = 14$ and $ab + bc + ca = 11$, then what is the value of $a^3 + b^3 + c^3 - 3abc$?

Difficulty : Moderate

Average Time : 63 Seconds

Options :

1. 31

2. 12

3. 18

4. 42

Solution :

The correct answer is **Option 3** i.e. **18**.

Given:

$$a + b + c = 6, a^2 + b^2 + c^2 = 14 \text{ and } ab + bc + ca = 11$$

Formula used:

$$a^3 + b^3 + c^3 - 3abc = (a + b + c)(a^2 + b^2 + c^2 - (ab + bc + ca)) \quad \text{---- (1)}$$

Calculations:

Using equation (1), we get

$$a^3 + b^3 + c^3 - 3abc = (6)(14 - 11)$$

$$6 \times 3 = 18$$

Question 85 :

The length of the tangent to a circle from a point P is 15 cm. Point P is 17 cm away from the centre. What is the radius of the circle?

Difficulty : Moderate

Average Time : 62 Seconds

Options :

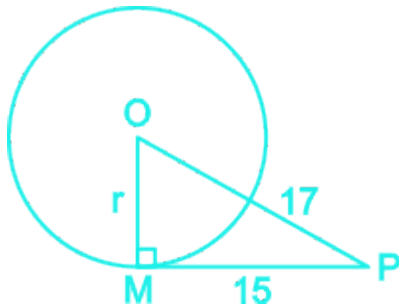
- 7 cm
- 2. 9 cm
- 3. 8 cm
- 4. 4 cm

Solution :

The correct answer is **Option 3** i.e. **8 cm**.

Calculations:

Let the radius of the circle be r



Using pythagoras theorem in triangle OMP, we get

$$r^2 = 17^2 - 15^2$$

$$r^2 = 289 - 225$$

$$r^2 = 64$$

$$r = 8 \text{ cm}$$

Question 86 :

Side of an equilateral triangle is 24 cm. What will be the radius of in circle of this equilateral triangle?

Difficulty : Moderate

Average Time : 54 Seconds

Options :

- 1. 6 cm
- 2. 12 cm
- 3. 43 cm
- 4. 3 cm

**Solution :**

The correct answer is **Option 3** i.e. **43 cm**.

Given:

Side of an equilateral triangle is 24 cm

Formula used:

In radius of equilateral triangle = side/23 ---- (1)

Calculations:

Using equation (1), we get

In radius of equilateral triangle = 24/23

43 cm

Question 87 :

The radius of a right circular cylinder is five times of its height. If the height of the cylinder is 3.5 cm, then what is the volume of cylinder?

Difficulty : Moderate

Average Time : 51 Seconds

Options :

1. 3368.75 cm³
2. 3872.75 cm³
3. 3146.75 cm³
4. 3524.25 cm³

Solution :

The correct answer is **Option 1** i.e. **3368.75 cm³**.

Given:

Height = 3.5 cm

Radius = 5 × Height

Formula used:

Volume of cylinder = r²h ---- (1)

Where r = radius and h = height

**Calculations:**

We know that, Radius = 5 × Height

$$\text{radius} = 5 \times 3.5 = 17.5 \text{ cm}$$

Using equation (1), we get

$$\text{Volume of cylinder} = \left(\frac{22}{7}\right) \times 17.5 \times 17.5 \times 3.5 = 3368.75 \text{ cm}^3$$

Question 88 :

In an election between two candidates, 12% of voters did not cast their votes. The winner by obtaining 68% of the total votes defeated his contestant by 2880 votes. What was the total number of voters who cast their votes in the election?

Difficulty : Moderate**Average Time : 64 Seconds****Options :**

1. 5280
2. 8000
3. 4000
4. 6000

Solution :

The correct answer is **Option 1** i.e. **5280**

Calculations:

Total number of voters = 100x

12% did not cast votes, remaining = 88% of 100x = 88x

Winning candidate = 68% of 100x = 68x

Losing candidate = 100x - 68x - 12x = 20x

According to the question;

$$68x - 20x = 2880$$

$$48x = 2880$$

$$x = 60$$

Total number of voters who cast their votes in the election = 88x



5280

Question 89 :

A cuboid of length 36 m, breadth 18 m and height 9 m is melted and recast into a cube. Find the length of the diagonal of the cube.

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

1. $\sqrt{18\sqrt{3}}$ m
2. $\sqrt{15\sqrt{3}}$ m
3. $\sqrt{12\sqrt{3}}$ m
4. $\sqrt{17\sqrt{3}}$ m

Solution :

The correct answer is **Option 1** i.e. $\sqrt{18\sqrt{3}}$ m

Given:

Length = 36 m, breadth = 18 m and Height = 9 m

Formula used:

$$\text{Volume of cuboid} = lbh \quad \text{---- (1)}$$

$$\text{Volume of cube} = a^3 \quad \text{---- (2)}$$

$$\text{Diagonal of cube} = 3a \quad \text{---- (3)}$$

Where l = length, b = breadth, h = height and a = side of cube

Calculations:

Equating equation (1) = equation (2), we get

$$36 \times 18 \times 9 = a^3$$

$$a = 18 \text{ m}$$

Using equation (3)

$$\text{Diagonal of cube} = 3 \times 18$$

$$183 \text{ m}$$

**Question 90 :**

The table given below shows the production of five companies in two years. Years Company Y1 Y2 A 50 100 B 90 120 C 30 80 D 80 50 E 20 40 J1 = The average production of A in year Y1 and Y2. J2 = Sum of production of B, C and D in year Y1 and Y2. What is the value of $(J2/J1)$?

Difficulty : Moderate

Average Time : 88 Seconds

Options :

1. 4
2. 5
3. 3
4. 6

Solution :

The correct answer is **Option 4** i.e. **6**.

Calculations:

$$J1 = (100 + 50)/2 = 75$$

$$J2 = 90 + 120 + 30 + 80 + 80 + 50 = 450$$

$$\text{Hence, the value} = (J2/J1) = 450/75 = 6$$

Question 91 :

Sunil purchased a fan at a 10% discount on the labelled price. If he had purchased it at a 15% discount, he would have saved Rs.400. Find the labelled price of the fan.

Difficulty : Moderate

Average Time : 39 Seconds

Options :

1. Rs.8,400
2. Rs.7,500
3. Rs. 800
4. Rs. 8000

Solution :

The correct answer is **Option 4** i.e. **Rs.8000**.

Calculations:

Let the marked price of the fan be $100x$

Selling price when discount is 10% = 90% of $100x = 90x$

Selling price when discount is 15% = 85% of $100x = 85x$

According to the question;

$$90x - 85x = 400$$

$$5x = 400$$

$$x = 80$$

Hence, the labelled price of the fan = $100x$

$$100 \times 80 = \text{Rs } 8000$$

Question 92 :

The following table shows the number of delivery partners (in thousands) who joined five different companies during six different years.

Year	Computer	Emazon	Clipkart	Twiggy	Tomato	Pyntra
2016	2.4	4.5	1.2	0.9	4.2	1.8
2017	1.8	5.4	1.5	1.2	5.6	3.2
2018	3.2	7.2	2.4	2.1	6.3	3.9
2019	3.9	5.6	2.8	2.7	6.5	4.2
2020	4.2	6.4	3.2	3.3	7.4	5.0
2021	5.0	7.2	3.6	3.6	7.2	7.2

Find the percentage increase in the number of delivery partners that joined Pyntra from 2017 to 2021.

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

1. 26.57%
2. 25.87%
3. 27.58%
4. 28.57%

Solution :

The correct answer is **Option 4** i.e. **28.57%**

Calculations:

Delivery partners that joined Pyntra in 2017 = 3.2

Delivery partners that joined Pyntra in 2021 = 7.2

Required percentage increase = $((7.2 - 3.2)/3.2) \times 100 = 28.57\%$

Question 93 :

Simplify the following. $\frac{(762^3 - 762^2 - 762 + 316^3 - 316^2 - 316)}{762^2 - 762 - 762^2 - 316 + 316^2 - 316}$

Difficulty : Moderate

Average Time : 35 Seconds

Options :

- 1064
- 1056
- 1042
- 1078

Solution :

The correct answer is **Option 4** i.e. **1078**.

Formula used:

$$a^3 + b^3 = (a + b)(a^2 - ab + b^2) \quad \text{---- (1)}$$

Calculations:

$$\frac{(762^3 - 762^2 - 762 + 316^3 - 316^2 - 316)}{762^2 - 762 - 762^2 - 316 + 316^2 - 316}$$

Can be written as;

$$\frac{((762^3 - 762^2 - 762 - 316^3 + 316^2 + 316)(762 + 316))}{762^2 - 762 - 762^2 - 316 + 316^2 - 316}$$

$$762 + 316 = 1078$$

Question 94 :

The price of some wooden furniture increases by 65% when it passes through three hands. If the first and second sellers made a profit of 20% and 25%, respectively, then find the profit percentage of the third seller

Difficulty : Moderate

Average Time : 56 Seconds

Options :

- 10%

12.5%

3. 16%

4. 8%

Solution :

The correct answer is **Option 1** i.e. **10%**.

Given:

Total profit = 65%

Profit by first seller and second seller are 20% and 25%

Formula used:

Successive profit = $P1 + P2 + (P1 \times P2)/100$

Calculation:

Effective profit % of 1st and 2nd profit = $20 + 25 + (20 \times 25)/100$

$$45 + 500/100$$

$$45 + 5 = 50\%$$

Let the 3rd profit% be x

$$\text{So, } 50 + x + 50x/100 = 65$$

$$50 + x + x/2 = 65$$

$$(100 + 2x + x)/2 = 65$$

$$100 + 3x = 130$$

$$3x = 30$$

$$x = 10$$

Hence, the third profit % = 10%

Question 95 :

What is the ratio of the fourth proportional of 2, 5, 6 and the fourth proportional of 6, 8, 9?

Difficulty : Moderate

Average Time : 56 Seconds

Options :

3 : 2

2. 5 : 3

3. 3 : 4

4. 5 : 4

Solution :

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

Formula used:

Fourth proportion of a, b, c and x

$$x = bc/a \quad \text{----- (1)}$$

Calculations:

Let the fourth proportional of 2, 5, 6 is m.

$$m = 5 \times 6/2 = 15$$

Let the fourth proportional of 6, 8 and 9 is n

$$n = 8 \times 9/6 = 12$$

Required ratio = m : n = 15 : 12 = 5 : 4

Question 96 :

If a man travels at $\left(\frac{1}{x}\right)$ km/h on a journey and returns at $\left(\frac{1}{x^2}\right)$ km/h, then his average speed for the journey is :

Difficulty : Moderate

Average Time : 53 Seconds

Options :

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

2. $\left(\frac{2}{X+X^2}\right)$

3. $\left(\frac{1}{X+X^2}\right)$

4. $\left(\frac{2X^2}{X+1}\right)$

Solution :

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



$$\left(\frac{2}{X^2 + X}\right)$$

Given:

$$\text{Speed 1} = 1/x \text{ km/h}$$

$$\text{Speed 2} = 1/x^2 \text{ km/h}$$

Formula used:

$$\text{Average speed} = \frac{2 \times \text{speed 1} \times \text{speed 2}}{\text{speed 1} + \text{speed 2}} \quad \text{---- (1)}$$

Calculations:

Using equation (1), we get

$$\text{Average speed} = \frac{2 \times 1/x \times 1/x^2}{1/x + 1/x^2}$$

$$\frac{2}{(x^2 + x)}$$

Question 97 :

If $(k^4 + \frac{1}{k^4}) = 194$, then what is the value of $(k^3 + \frac{1}{k^3})$?

Difficulty : Moderate

Average Time : 67 Seconds

Options :

1. 42

2. 52

3. 36

4. 18

Solution :

The correct answer is **Option 2** i.e. **52**.

Given:

$$(k^4 + \frac{1}{k^4}) = 194$$

Formula used:

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

$$(a + b)^3 = a^3 + b^3 + 3ab(a + b)$$

Calculations:



Using equation (1), we get

$$(K^2 + 1/K^2)^2 = K^4 + 1/K^4 + 2$$

$$(K^2 + 1/K^2)^2 = 194 + 2$$

$$(K^2 + 1/K^2) = 14$$

Similarly,

$$(K + 1/K)^2 = (K^2 + 1/K^2) + 2$$

$$(K + 1/K)^2 = 14 + 2$$

$$(K + 1/K) = 4$$

Now, using equation (2), we get

$$(K^3 + 1/K^3) = (K + 1/K)^3 - 3(K + 1/K)$$

$$(K^3 + 1/K^3) = 4^3 - 3 \times 4$$

$$(K^3 + 1/K^3) = 64 - 12 = 52$$

Question 98 :

The HCF of two numbers 2040 and 391 is:

Difficulty : Moderate

Average Time : 80 Seconds

Options :

1. 17

2. 21

3. 16

4. 18

Solution :

The correct answer is **Option 1** i.e. 17.

Calculations:

Factors of 2040 = $2 \times 2 \times 2 \times 3 \times 5 \times 17$

Factors of 391 = 17×23

Hence, the highest common factor is 17.

Question 99 :

What annual instalment will discharge a debit of Rs.5,664 in 4 years at 12% simple interest?

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

1. Rs.1,230
2. Rs.1,210
3. Rs.1,200
4. Rs.1,220

Solution :

The correct answer is **Option 3** i.e. **Rs.1,200**.

Given:

Amount = Rs 5,664

Time = 4 years

Rate = 12%

Formula used:

$$\text{Installment} = (100 \times A) / \{100 \times T + RT(T - 1)/2\} \quad \text{---- (1)}$$

Where R = rate, A = amount and T = time

Calculation:

Using equation (1), we get

$$\text{Installment} = (100 \times 5664) / (100 \times 4 + 12 \times 4 \times 3/2)$$

$$(100 \times 5664) / (400 + 72)$$

$$100 \times (5664/472)$$

$$100 \times 12 = \text{Rs } 1200$$

Question 100 :

How far will the tip of a 2 cm-long minute hand of a clock move in 45 minutes?

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

**Options :**

1. cm
2. 3 cm
3. 4 cm
4. 2 cm

Solution :

The correct answer is **Option 2** i.e. **3 cm**.

Given:

The minute hand of a watch is 2 cm long.

Formula Used:

$$\text{Arc length, } l = r \times \theta \quad \text{----- (1)}$$

Where l = arc length, r = radius, θ = central angle in radian

Calculation:

We know that, $1^\circ = \frac{c}{180}$

$$\text{Angle covered by the minute hand in 60 min} = (2)^\circ$$

$$\text{Angle covered by the minute hand in 45 min} = \left(\frac{2}{60} \times 45\right)^\circ = \left(\frac{3}{2}\right)^\circ$$

Using equation (1), we get

$$l = 2 \times \frac{3}{2}$$

$$l = 3$$

$$l = 3 \times 3.14 = 9.42$$

Ssc Cgl Tier I Previous Year Question Paper Analysis

The analysis of Ssc Cgl Tier I Previous Year Question Paper held on 2022-12-02 in the Afternoon exam is as follows:

1. 100 questions were moderate.
2. The safe score is 140 marks.
3. 25 questions were asked from Quantitative Aptitude, 25 questions were asked from English Language, 25 questions



were asked from General Awareness and 25 questions were asked from Logical Reasoning
4. 20 questions should have been skipped if you were short of time.

Ssc Cgl Tier I Previous Year Question Paper Topic Wise Weightage

Quantitative Aptitude

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

English Language

1. Cloze Test - 4
2. Spotting Error - 1
3. Idioms - 1
4. One Word Substitution - 4
5. Narration - 1
6. Voice - 2
7. Sentence Improvement - 2
8. Synonym - 3
9. Antonym - 1
10. Filler (Vocab) - 2
11. Incorrectly Spelt - 4
12. Incorrectly Spelt - 4

General Awareness

1. GK Misc - 25

Logical Reasoning

1. Coding Decoding - 2
2. Analogy - 5
3. Classification - 2
4. Blood Relations - 2
5. Syllogism - 2
6. Dictionary Based - 1
7. Figure Based - 4
8. Series - 3
9. Mathematical Reasoning - 3
10. Cubes And Dice - 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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Quantitative Aptitude
Logical Reasoning
English Language
Today In History
Syllabus
Know Your State
Know Your Country
Know Your City
Know Your Leader
Books And Authors
Daily Vocabulary
Daily Editorial
Latest Notifications
Exam Dates
Admit Card
Exam Results
Exam Cutoff
Exam Eligibility
Exam Pattern
Answer Key
Important Days



Further Guidance on Ssc Cgl Tier I Previous Year Question Paper

For Asking any query on Ssc Cgl Tier I Previous Year Question Paper please mail [Send Email](#) or you can fill the form at [KD Live](#).

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About Neetu Mam

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.