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 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 :

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 A are H. II. No B is A. Conclusion: I. Some A are not B. II. No B is H

Difficulty : Moderate   **Average Time : 58 Seconds**
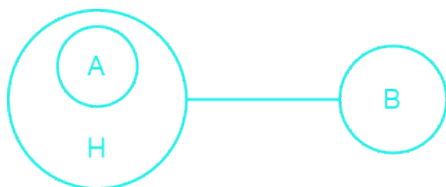
Options :

1. Only conclusion II follows

2. Both conclusions I and II follows

3. Neither conclusion follows

4. Only conclusion I follows

Solution :

The correct answer is **Option 4** i.e. **Only conclusion I follows.**

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

Conclusions:

I. Some A are not B **True** (As no B is A, so, some A are not B is true.)

II. No B is H **False** (It is possible, but no definite conclusion can be drawn.)

Hence, **Only conclusion I follows.**

Question 2 :
Select the set in which the numbers are related in the same way as are 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 /deleting /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) (11,13,143) (17, 11, 187)

Difficulty : Moderate

Average Time : 76 Seconds

Options :

1. (3, 4, 7)
2. (3, 4, 13)
3. (3, 4, 12)
4. (3, 4, 1)

Solution :
The correct answer is **Option 3** i.e. **(3, 4, 12).**

The logic used here is:

(11, 13, 143)

$11 \times 13 = 143$

(17, 11, 187)

$17 \times 11 = 187$

Similarly,

(3, 4, 12)

$3 \times 4 = 12$

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

Question 3 :
In a certain code language, 'GOLF' is coded as '44', and 'BALL' is coded as '31'. How will 'PLAY' be coded in that language?

Difficulty : Moderate

Average Time : 43 Seconds

Options :

1. 60
2. 58
3. 62
4. 56

Solution :

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

The logic used here is:

'GOLF' is coded as '44'

GOLF = 7 + 15 + 12 + 6 = 40 + 4 = 44

'BALL' is coded as '31'

BALL = 2 + 1 + 12 + 12 = 27 + 4 = 31

Similarly;

Code for the word PLAY:

PLAY = 16 + 12 + 1 + 25 = 54 + 4 = 58

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

Question 4 :

Select the most appropriate synonym of the underlined word. The present paper throws light on the nexus between the academic performance and mental health of children.

Difficulty : Moderate

Average Time : 46 Seconds

Options :

1. Dispute
2. Alignment
3. Link
4. Incongruence

Solution :

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

The underlined word in the given sentence is "**nexus**," which means a connection or link between two or more things.

Meanings of the other words are:

- **Dispute:** an argument or disagreement
- **Alignment:** the arrangement in a straight line
- **Link:** a connection, and "Incongruence," which means inconsistency or lack of harmony.

Out of these options, the most appropriate synonym for the underlined word "nexus" is "Link," as it also means a connection or relationship between two or more things.

*Therefore, the most appropriate synonym for the given word is **Link.***

Question 5 :

Select the most appropriate option to fill in the blank and complete the collocation. Every time my boss comes up with some good idea, he gets into _____.

Difficulty : Moderate   **Average Time : 69 Seconds**

Options :

1. trouble

2. fun

3. sleep

4. shock

Solution :

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

- Out of the given options, the most appropriate option that completes the collocation 'gets into' is 'trouble'.
- This is because the phrase 'gets into trouble' is a common collocation in English that means to get into a difficult or problematic situation.

Therefore, the correct sentence is:

*Every time my boss comes up with some good idea, he gets into **trouble**.*

Question 6 :

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'. Finally, here are a few examples of passages and their précis.

Difficulty : Moderate	Average Time : 58 Seconds

Options :
1. by passages and their précis
2. of passages and there precis
3. of passages and there precises
4. No substitution

Solution :

The correct answer is **Option 4.** i.e. **No substitution.**

- The sentence is grammatically correct. However, the word "précis" should be spelled as "precis" without an "e" at the end.

Therefore, the corrected sentence would be:

Finally, here are a few examples of passages and their precis.

Question 7 :

The distance covered by a train in (5y - 1) houres is (125 y3 - 1) km. The speed of the train is:

Difficulty : Moderate	Average Time : 55 Seconds

Options :
1. $(5y^3 -1)$ km/h
2. $(25y^2 - 5y + 1)$ km/h
3. $(5y +1)$ km/h
4. $(25y^2 + 5y + 1)$ km/h

Solution :

The correct answer is **Option 4.** i.e. **$(25y^2 + 5y + 1)$ km/h.**

Given:

Distance = (125 y^3 - 1) km

Time = (5y - 1) hours

Concept Used:

Distance = Speed × Time

$a^3 - b^3 = (a - b)(a^2 + ab + b^2)$

Explanation:

Speed of train = $Distance \over Time$

Speed of train = $(125 y^3 - 1) \over (5y - 1)$

Speed of train = ${(5y)^3 - 1^3} \over (5y - 1)$

Speed of train = ${(5y - 1)(25y^2 + 5y + 1)} \over (5y - 1)$

Speed of train = $25y^2$ + 5y + 1

Hence the speed of train is **($25y^2$ + 5y + 1) km/h.**

Question 8 :
A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
DMT, JOB, PQJ, VSR,?

Difficulty : Moderate

Average Time : 82 Seconds

Options :

1. BZY
2. ZYM
3. BUZ
4. BZM

Solution :

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

Given series: DMT, JOB, PQJ, VSR,?

The series follows this pattern:

DMT, JOB

D + 6 = J

M + 2 = O

T + 8 = B

Similarly;

VSR,?

V + 6 = B

S + 2 = U

R + 8 = Z

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

Question 9 :
The sides of a triangle are in the ratio 4 : 6 : 8. The triangle is a/an:

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

Options :
1. isosceles triangle

2. obtuse-angled

3. acute-angled

4. right-angled

Solution :
The correct answer is **Option 2.** i.e. **obtuse-angled.**

Given:

Ratio of sides of triangle = 4 : 6: 8

Concept used:

In an obtuse angled triangle, the sum of the squares of the smaller sides of the triangle are less than the square of the larger side.

Explanation:

Let the sides of the triangle are 4x, 6x and 8x respectively.

Sum of the squares of smaller sides = $(4x)^2 + (6x)^2 = 16x^2 + 36x^2 = 52x^2$

Square of larger side = $(8x)^2 = 64x^2$

$(52x^2 \quad 64x^2)$

Hence the given triangle is obtuse angled triangle.

Question 10 :
The type of forests located in mid latitudinal coastal region is _____.

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

Options :

1. Tropical rainforest

2. Mediterranean vegetation

3. Monsoon forest

4. Temperate evergreen forest

Solution :
The correct answer is **Option 4.** i.e. **Temperate evergreen forest.**

1. **Temperate Evergreen Forests** The temperate evergreen forests are located in the mid- latitudinal coastal region .They are commonly found along the eastern margin of the continents

2. Temperate evergreen forests are **found in the United States, Canada, Europe, and Asia, in areas that generally receive between 300 and 900 mm of rain per year and with seasonal temperature extremes ranging from -40 to 20 °C.**

3. These forests are restricted to heavy rainfall areas of the Western Ghats and the island groups of **Lakshadweep, Andaman and Nicobar, upper parts of Assam and Tamil Nadu** coast.

4. Vegetation includes coniferous-evergreen tree species that produce cones and needles, dominated by spruce (*Picea*), Pine (*Pinus*), fir (*Abies*), and hemlock (*Tsuga*) species, and the trees retain at least some of their needles year-round.

5. Multilayered forests with dense canopy.

6. Trees reach great heights.

7. Trees shed their leaves during specific season.

8. They make due in warm and chilly climates.

9. These woods are denser than some others.

10. These woods have elevated degrees of precipitation and moistness.

Question 11 :

Which of the following is the most important festival celebrated by the Muslim community in India to mark the beginning of the Islamic New Year?

Difficulty : Moderate   **Average Time : 91 Seconds**

Options :

1. Milad-Un-Nabi

2. Muharram

3. Idu'l Zuha

4. Idu'l Fitr

Solution :

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

Muharram is celebrated as New Year's Day among the Muslim community across the globe. However, the Shias mourn on this day while Sunnis observe fasting for the entire day.

Muharram is considered to be the period of recalling and mourning the martyrdom of Hazrat Imam Hussain by the community of Shia Muslims, which starts mourning from the first night of Muharram and will continue for the next 2 months and 8 days. A greater amount of importance is placed on the first ten days of the festival

Question 12 :

Bimbavati Devi is an exponent of which Indian dance form?

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

Options :

1. Chhau

2. Manipuri

3. Kathakali

4. Odissi

Solution :

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

Bimbavati Devi, a gifted performer of **Manipuri** dance, along with artistes of Manipuri Nartanalaya- Kolkata gives her an

audio-visual extravaganza, bringing forth the creative essence of Manipuri dance. She is the disciple and daughter of Guru Bipin Singh and Kalavati Devi.

She was initiated into the world of dance and music at a very tender age.

- Besides dancing, she has also undergone training in pung (Manipuri mridang) and recently initiated into Thang Ta (Manipuri martial art).
- Bimba, an empanelled artiste of Indian Council for Cultural Relations (ICCR), has performed in various prestigious dance programs and festivals in India and abroad.

Question 13 :
It is the duty of every citizen to uphold and protect the _____, unity and integrity of India.

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

Options :
1. autonomy
2. authority
3. sovereignty
4. privacy

Solution :
The correct answer ia **Option 3.** i.e. **sovereignty.**

Through the 86th amendment of 2002, the eleventh duty was added. "To uphold and protect the sovereignty, unity, and integrity of India" it is one such duty prescribed under the same. It is one of the most important duties to be followed.

- The formation and protection of sustainable freedom, equality and justice in society depends totally on the exact sense of establishment of national sovereignty. Therefore, the basis of freedom, equality and justice is national sovereignty.
- Through 42nd Amendment Act, 1976. 'Unity of the Nation' was changed to 'Unity and Integrity of the Nation'.

There are 11 fundamental duties in India, which are written in Part IV-A of the Constitution, to promote patriotism and strengthen the unity of India.

- Abide by the Constitution and respect national flag & National Anthem
- Follow ideals of the freedom struggle
- Protect sovereignty & integrity of India
- Defend the country and render national services when called upon

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Sprit of common brotherhood
- Preserve composite culture
- Preserve natural environment
- Develop scientific temper
- Safeguard public property
- Strive for excellence
- Duty fo all parents/guardians to send their children in the age group of 6-14 years to school.

Question 14 :

Which of the following statements about the Vice President of India is INCORRECT?

Difficulty : Moderate	Average Time : 89 Seconds

Options :

1. Members of State legislatures do not take part in his elections

2. He acts as the ex-officio Chairman of the Rajya Sabha.

3. The Vice President is elected for five years.

4. He can be removed from his office by the President approved through a resolution passed by the Lok Sabha and Rajya Sabha.

Solution :

The correct answer is **Option 4**. i.e. **He can be removed from his office by the President approved through a resolution passed by the Lok Sabha and Rajya Sabha.**

The Vice-President **can be removed from office by a resolution of the Council of States (Rajya Sabha), passed by a majority of its members at that time and agreed to by the House of the People (Lok Sabh**a). A resolution for this purpose may be moved only after a notice of at least a minimum of 14 days has been given of such an intention.

1. **The Office of the Vice-President Article 63-** The Vice-President of India is the second highest constitutional office in the country. He serves for a five-year term, but can continue to be in office, irrespective of the expiry of the term, until the successor assumes office.
2. Vice-President's function as the Chairperson of the Council of States (Rajya Sabha).
3. The Vice-President is the ex-officio Chairperson of the Council of States (Rajya Sabha) and does not hold any other office of profit. During any period when the Vice-President acts as, or discharges the functions of the President, he does not perform the duties of the office of the Chairperson of the Council of States (Rajya Sabha) and, is not entitled to any salary or allowances payable to the Chairperson, Rajya Sabha.**Article 64.**
4. The Vice-President acts as President, during casual vacancy in the office of the President by reason of death, resignation or removal or otherwise, until a new President is elected as soon as practicable. **Article 65.**

Question 15 :

The Kuchipudi classical dance is accompanied with which type of music?

Difficulty : Moderate

Average Time : 114 Seconds

Options :

1. Kajri

2. Chaiti

3. Carnatic Music

4. Hindustani Music

Solution :

The correct answer is **Option 3**. i.e. **Carnatic Music.**

Kuchipudi dance is performed on classical **Carnatic music**. This performance is an imitation of attractive expressions, sharp looks and fleeting emotions. The lyrics used in Kuchipudi are usually in Telugu and Sanskrit verses.

This dance is a combination of Tandava (the majestic, masculine) and and Lasya (lyrical graceful and feminine energy).

- The typical musical instruments in Kuchipudi are mridangam, cymbals, veena, flute and the tambura.
- It originated in a village named Kuchipudi in the Indian state of **Andhra Pradesh**.
- Kuchipudi derives its name from the village of **Kuchelapuram**, in Andhra Pradesh, India.
- Vijayanagar and Golconda rulers patronized the dance form.
- Kuchipudi grew largely as a product of the Bhakti movement beginning in the seventh century A.D.

Question 16 :

Which Indian budget introduced a statement highlighting the gender sensitivities of the budgetary allocations?

Difficulty : Moderate

Average Time : 71 Seconds

Options :

1. 2008-09

2. 2010-11

3. 2005-06

4. 2001-02

Solution :

The correct answer is **Option 3**. i.e. **2005-06.**

1. Gender Budget Statement was first introduced in Budget **2005-06**. On the basis of the information furnished by the Ministries/ Departments, the Gender Budget Statement is prepared.
2. This Statement indicates, in two parts, the budget provisions for schemes that are substantially meant for the benefit of women.
3. **Part A** details schemes in which 100% provision is for women,
4. **Part B** reflects schemes where the allocations for women constitute at least 30% of the provision.
5. Gender Budgeting in its simplest connotation is 'Gender Analysis' of the budget aimed at examining the budgetary allocation through a gender lens. The purpose of gender budgeting is to monitor expenditure and public service delivery from a gender perspective, as a means of mainstreaming women's concerns in all activities and improving their access to public resources.

Question 17 :
According to Union Health Ministry, a new display image, with a warning written as "Tobacco causes painful death" will be printed on tobacco products manufactured, imported, or packaged on or after _____.

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

Options :
1. 1 January, 2023
2. 1 February, 2023
3. 1 November, 2022
4. 1 December, 2022

Solution :
The correct answer is **Option 4**. i.e. 1 **December, 2022.**

According to Union Health Ministry, a new display image, with a warning written as "Tobacco causes painful death" will be printed on tobacco products manufactured, imported, or packaged on or after **December 1, 2022.**

- The norm related to the new display image on tobacco packs will be in place for period of one year, starting from December 1, 2022.
- From December 1, 2023, another display image will be used with warning written as "tobacco users die younger".
- Ministry has made new amendments to Cigarettes and other Tobacco Products (Packaging and Labelling) Rules, 2008. These amendments were notified on July 21, 2022.
- Person engaged in manufacture, production, import, supply, or distribution of any tobacco products, directly or indirectly, have been mandated to ensure that all tobacco product packages have specified health warnings.

Violation of the new health guidelines will attract imprisonment or fine in accordance with Section 20 of the Cigarettes and Other Tobacco Products (Prohibition of Advertisement and Regulation of Trade and Commerce, Production, Supply and Distribution) Act, 2003.

Question 18 :
Ishwarchandra vidyasagar set up school for girls at _____.

Difficulty : Moderate

Average Time : 77 Seconds

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

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

Ishwar Chandra was born on 26 September 1820 in Midnapore district of Bengal Presidency(now in West Bengal.

- Ishwar Chandra was a keen advocate of education for women. He rightly viewed education as the primary way for women to emancipate themselves from all the social oppression they had to face at the time.
- He exercised his power and lobbied hard for opening of **school for girls** and even outlined a suitable curriculum that not only did educate them but also enabled them to be self-reliant through vocations like needlework.
- He went door to door, asking family heads to allow their daughters to be enrolled in schools. Throughout Bengal, he **opened 35 women's schools** and succeeded in enrolling 1300 students.
- To support women education Vidyasagar organized a **fund called Nari Siksha Bhandar.**
- He supported John Elliot Drinkwater Bethune to establish the first **permanent girls' school in India, the Bethune School,** on May 7, 1849.
- Vidyasagar expressed his ideas through regular articles he wrote for periodicals and newspapers. He was associated with prestigious journalistic publications like 'Tattwabodhini Patrika', 'Somprakash', 'Sarbashubhankari Patrika' and 'Hindu Patriot'.
- Vidyasagar **established the Sanskrit Press** with an aim to produce printed books at affordable prices so that common people could buy them.

Question 19 :

Which of the following is correctly matched?

Difficulty : Moderate

Average Time : 96 Seconds

Options :

1. Kaal Baisakhi - Autumn winds

2. Trade winds - Winter snow storm

3. Loo - Hot wind

4. Loo - Winter stormy winds

Solution :

The correct answer is **Option 3**. i.e. **Loo - Hot wind.**

The Loo is **a strong, dusty, gusty, hot and dry summer wind from the west which blows over the Indo-Gangetic Plain region of North India and Pakistan**. It is especially strong in the months of May and June.

Loo winds **originate over Iranian, Baloch and Thar deserts**. In May and June, high temperature in northwest India builds steep pressure gradient. Hot, dust laden and strong wind known as loo blows. Loo normally starts blowing by 9.00 A.M., increases gradually and reaches maximum intensity in the afternoon.

Loo is the hot, dry, and oppressing winds blowing especially in Northern plains of India(UP, **Bihar, Rajasthan, Delhi**).

Additional information-

Question 20 :

The scheme, "Bahini", aims at providing 100 percent access to free and safe sanitary pads to secondary and senior secondary school going girls. This scheme was launched by which state government?

Difficulty : Moderate

Average Time : 84 Seconds

Options :

1. Bihar

2. Sikkim

Arunachal Pradesh

4. Assam

Solution :
The correct answer is **Option 2**. i.e. **Sikkim**

- The Bahini scheme aims to provide secondary and senior secondary school-going girls with 100% access to free and safe sanitary pads. Under the Bahini scheme, Vending machines will be installed in 210 secondary and senior secondary government schools of **Sikkim** to provide free sanitary pads.
- The scheme will cover 18,665 adolescent girls studying in government schools in Sikkim.
- This is the first time in India that a state decided to cover all girls studying in Class 9-12.
- Under the scheme, incinerators will also be installed at the schools to dispose of pads.
- Anganwadi and ASHA workers will also be involved in the Bahini Scheme.

Aims of the Bahini scheme

The main aim of the Bahini scheme is to curb the dropout of adolescent girls from schools. According to an international NGO WaterAid India, 23% of adolescent girls drop out of school due to a lack of proper sanitation facilities and sanitary napkins. The scheme also raises awareness about menstrual hygiene among school-going adolescent girls.

Question 21 :
The Competition (Amendment) Bill, 2022 proposes to reduce the timeline for the CCI to pass an order on transactions from 210 days to _____ days.

Difficulty : Moderate   **Average Time : 81 Seconds**

Options :
1. 140

2. 180

3. 150

4. 190

Solution :
The correct answer is **Option 3**. i.e. **150.**

The Bill proposes to reduce the timeline for the CCI to pass an order on such transactions from 210 days to **150 days**.

Competition (Amendment) Bill - The Bill **seeks to amend the Competition Act, 2002, to regulate mergers and acquisitions based on the value of transactions**. Deals with transaction value of more than Rs 2,000 crore will require

CCI's approval.

- The Bill expands the scope of entities that can be adjudged to be a part of anti-competitive agreements. Currently, enterprises or persons engaged in similar businesses can be held to be a part of anti-competitive agreements. The Bill expands this to also include enterprises or persons who are not engaged in similar businesses.

- The Bill provides a framework for settlement and commitment for faster resolution of investigations of anti-competitive agreements and abuse of dominant position.

- The Bill decriminalises certain offences under the Act by changing the nature of punishment from imposition of fine to civil penalties. These offences include failure to comply with orders of the CCI and directions of the Director General related to anti-competitive agreements and abuse of dominant position.

- The Act allows the use of intellectual property rights as a defence in cases of anti-competitive agreements. This defence is not available in cases involving abuse of dominant position. The Bill does not address this gap.

Question 22 :

At present, the Grand Trunk Road extends from _____ in India.

Difficulty : Moderate   **Average Time : 94 Seconds**

Options :

1. Kashmir to Kanyakumari

2. Amritsar to Kolkata

3. Chennai to Kolkata

4. Agra to Kolkata

Solution :

The correct answer is **Option 2.** i.e. **Amritsar to Kolkata.**

1. At present, it extends from **Amritsar to Kolkata**. It is bifurcated into 2 segments : (a) National Highway(NH)-1 from Delhi to Amritsar, and (b) NH- 2 from Delhi to Kolkata.
2. The Grand Trunk Road is one of Asia's oldest and longest major roads. For at least 2,500 years it has linked Central Asia to the Indian subcontinent.
3. It is over 1,500 miles (2,500km) and extends **from Kabul all the way through Lahore, Delhi and reaching Kolkata in West Bengal and Chittagong in Bangladesh**.
4. Sher Shah Suri built the Grand Trunk Road during India's 16th century. He built it **to shorten the distance between India and the nation of Pakistan, as well as help connect the eastern and western parts of India**.

Question 23 :

What is the average circumference of the standard cricket ball in international cricket?

Difficulty : Moderate

Average Time : 71 Seconds

Options :

1. 7.89 inches - 8.45 inches

2. 10.46 inches - 10.90 inches

3. 9.45 inches - 10.20 inches

4. 8.81 inches - 9 inches

Solution :

The correct answer is **Option 4.** i.e. **8.81 inches - 9 inches.**

The average circumference of the standard cricket ball in international cricket is when the ball, is new, its weigh shall not less than 5.5 ounces/155.9 g, nor more than 5.75 ounces/163 g, and shall measure **not less than 8.81 in/22.4 cm, nor more than 9 in/22.9 cm in circumference.**

Women's cricket

Weight: from 4.94 ounces/140 g to 5.31 ounces/151 g

Circumference: from 8.25 in/21.0 cm to 8.88 in/22.5 cm.

Question 24 :
Which of the following festivals is known as Vijaya Utsav?

Difficulty : Moderate

Average Time : 53 Seconds

Options :

1. Hampi Festival

2. Gangasagar Mela

3. Pushkar Fair

4. Konark Dance Festival

Solution :

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

Hampi or Hampe, also referred to as the Group of Monuments at Hampi, is **a UNESCO World Heritage Site located in Hampi town, Vijayanagara district, east-central Karnataka, India**. Hampi was the capital of the Vijayanagara Empire in the 14th century. It was a fortified city.

The Hampi Utsava also called Vijaya Utsava celebrated over a week that captures the pomp, splendour, and glory of the Vijayanagara Empire. The festival is celebrated **to commemorate the culture and heritage of the Vijayanagar Empire**. Hampi, known for ancient ruined temples, is beautifully decorated with fairy lights. It is locally known as Hampi Utsav or Vijay Utsav.

Additional Information-

Gangasagar Mela	Gangasagar, West Bengal,
Pushkar Fair	Held in the town of Pushkar near Ajmer city in Ajmer district
Konark Dance Festival	Sun temple in Konark, Odisha in India. It is one of the biggest dance festivals held in Odisha. The exquisite 'Salamander' or the 'dancing hall' of this shrine is an architectural wonder.

Question 25 :

When did Prime Minister, Narendra Modi integrate selected fitness enthusiasts of the country in the first session of 'Fit India Dialogue' as a part of the 'Fit India Movement'?

Difficulty : Moderate   **Average Time : 91 Seconds**

Options :

1. 24 September 2019
2. 24 September 2018
3. 24 September 2020
4. 24 September 2021

Solution :

The correct answer is **Option 3**. i.e. 24 **September 2020.**

New Delhi, Sep 22 , 2020: In a unique initiative, Honourable Prime Minister Shri. Narendra Modi interacted with fitness influencers and citizens during a nation-wide online **Fit India Dialogue** which was being organized to celebrate the first anniversary of the **Fit India Movement on September 24, 2020.**

The **Fit India Dialogue,** which will see participation of fitness enthusiasts from all over the country, further strengthens the vision that it is the citizens who are to be credited for the success of the nationwide movement.

Question 26 :

In which of the following years was the Treaty of Salbai signed?

Difficulty : Moderate

Average Time : 55 Seconds

Options :

1. 1817
2. 1769
3. 1800
4. 1782

Solution :

The correct answer is **Option 4**. i.e. **1782.**

The **Treaty of Salbai was signed on 17 May 1782,** by representatives of the Maratha Empire and the British East India Company after long negotiations to settle the outcome of the First Anglo-Maratha War it was signed between Warren Hastings and Mahadaji Sindhia.

Under its terms, **the Company retained control of Salsette and Broach and acquired guarantees that the Marathas would defeat Hyder Ali of Mysore and retake territories in the Carnatic**. The Marathas also guaranteed that the French would be prohibited from establishing settlements on their territories.

Question 27 :
Limestone, chalk and marble are different forms of _____.

Difficulty : Moderate

Average Time : 53 Seconds

Options :

1. Calcium phosphate
2. Calcium hydroxide
3. Calcium oxide
4. Calcium carbonate

Solution :

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

Marble has a hard crystalline structure while Chalk is amorphous in nature. But limestone is a sedimentary rock which can occur in both crystalline and amorphous form.

- The main difference between limestone and marble is that limestone is a sedimentary rock, typically composed of calcium carbonate fossils, and marble is a metamorphic rock.

Limestone forms when shells, sand, and mud are deposited at the bottom of oceans and lakes and over time solidify into rock.

- Marble forms when sedimentary limestone is heated and squeezed by natural rock-forming processes so that the grains recrystallize,

Decomposition: A substance breaks down to smaller species.

e.g. CaCO3(s) CaO(s) + CO2(g)

Decomposition of limestone to calcium oxide (quicklime) and carbon dioxide on heating.

Question 28 :
Which of the following is NOT correct regarding king Harshavardhana?

Difficulty : Moderate   **Average Time : 69 Seconds**

Options :

1. Harshavardhana ruled nearly about 1400 years ago

2. Xuan Zang spent a lot of time at Harsha's court

3. Harshavardhana's court poet was Harishena

4. Harshacharita is a biography written on Harshavardhana

Solution :
The correct answer is **Option 3.** i.e. **Harshavardhana's court poet was Harishena.**

Banabhatta was a **7th-century Sanskrit prose writer and poet of India**. He was the Asthana Kavi in the court of the emperor Harsha, who reigned c. 606–647 CE in north India, first from Sthanvishvara (Thanesar), and later Kannauj.

Bana's principal works include a biography of Harsha**, the Harshacharita (Deeds of Harsha)** and one of the world's earliest novels, **Kadambari.**

Additional Information-

1. Harshavardhana was **born in 590 AD to King Prabhakaravardhana of Sthaneshvara (Thanesar, Haryana)**. He belonged to the Pushyabhuti also called the Vardhana dynasty.
2. Himself wrote three Sanskrit plays-**Nagananda, Ratnavali** and **Priyadarshika.**
3. Hiuen-Tsang a Chinese pilgrim visited Harsha's court, wrote a book 'Shi-Yu-Ki' (the world of the west) after going back to China.
4. He organized religious festival called Mahamoksha Harishad at Prayaga (Allahabad), at the end of every five years.Here he performed the ceremony of Dana.
5. Harsha was defeated by Pulakesin II in 637 A.D.

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Grand assembly held at Kannauj for Hiuen-Tsang in 643 A.D.

7. Harshvardhana divides his income in four equal parts namely- for royal family, for army and administration, for religious endowments and for poor's and destitute.

8. Died in the year 647 A.D

Question 29 :

For the first time the objective of self-reliance was incorporated in the _____ Five-Year Plan.

Difficulty : Moderate

Average Time : 104 Seconds

Options :

1. third

2. second

3. fifth

4. first

Solution :

The correct answer ia **Option 1.** i.e. **third.**

Objective of self-reliance in the Third Five Year Plan:

The objective of self-reliance was incorporated in the Third Five Year Plan in India. It was launched in 1961 and continued till 1966. The main focus of the plan was to reduce poverty, increase employment opportunities, and promote economic growth.

Importance of self-reliance:

Self-reliance is an important aspect for any country to achieve economic growth and development. It refers to the ability of a country to produce goods and services on its own without relying on other countries. The concept of self-reliance was introduced in India to reduce dependence on foreign aid, technology, and imports.

Objectives of the Third Five Year Plan:

The Third Five Year Plan had the following objectives:

1. To achieve a growth rate of 5.6% per annum.

2. To increase employment opportunities and reduce poverty.

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3. To promote the development of agriculture, industry, and infrastructure.

4. To increase the production of food grains and reduce food imports.

5. To promote the development of science and technology.

6. To reduce the regional imbalances in economic development.

7. To promote self-reliance and reduce dependence on foreign aid and imports.

Question 30 :
Productivity of an ecosystem is composed of which of the following?

Difficulty : Moderate   **Average Time : 86 Seconds**

Options :
1. Gross productivity and primary productivity

2. Primary and secondary productivity

3. Net productivity and consumption

4. Net primary productivity and gross primary productivity

Solution :
The correct answer is **Option 4.** i.e. **Net primary productivity and gross primary productivity.**

The rate of biomass production is called productivity. The portion of fixed energy, a trophic level passes on to the next trophic level is called production.

Productivity in ecosystems is of two kinds, **i.e., primary and secondary.** Green plants fix solar energy and accumulate it in organic forms as chemical energy. As this is the first and basic form of energy storage, the rate at which the energy accumulates in the green plants or producers is known as primary productivity.

Primary productivity has two aspects:

(i) Gross and

(ii) Net.

1. The amount of energy-bound organic matter created per unit area and time that is left after respiration is net primary productivity (NPP).

Net productivity of energy = Gross productivity — Energy lost in respiration.

2. The rates at which the heterotrophic organisms resynthesise the energy-yielding substances are called secondary productivity. Here, the net primary productivity (NPP) results in the accumulation of plant biomass, which serves the food of herbivores and decomposers.

Question 31 :
How does hydrochloric acid help in facilitating the action of pepsin?

Difficulty : Moderate

Average Time : 93 Seconds

Options :
1. Hydrochloric acid creates an acidic medium which facilitates the action of the enzyme pepsin
2. Hydrochloric acid helps break down pepsin.
3. Hydrochloric acid creates an alkaline medium which facilitates the action of the enzyme pepsin.
4. Hydrochloric acid creates a basic medium which facilitates the action of the enzyme pepsin.

Solution :
The correct answer is **Option 1.** i.e. **Hydrochloric acid creates an acidic medium which facilitates the action of the enzyme pepsin..**

Hydrochloric acid (HCl), another component of the gastric juice, plays a crucial role in **creating the pH required for pepsin activity**. Parietal cells produce HCl by secreting hydrogen and chloride ions. When pepsinogen and hydrochloric acid exist together in the gastric juice, pepsin takes its active form.

An increase in HCl and decreasing pH level also signal gastric motility to turn on to move the partially digested bolus of food along and help kill bacteria normally ingested with food. The pH of the stomach is regulated by a negative feedback loop by antral D cells that release somatostatin which inhibits the release of gastrin. As food moves out of the stomach, the H+ concentration increases which also serves to inhibit HCl secretion.

Hydrochloric acid contributes to protein digestion by **supplying H+ which activates pepsinogen, the precursor to pepsin**. Pepsinogen is secreted by chief cells in the gastric glands of the body and antrum of the stomach.

Question 32 :
In 1979, who shared the Nobel Prize with Georg Wittig for their 'development of the use of boron- and phosphorus-containing compounds, respectively, into important reagents in organic synthesis'?

Difficulty : Moderate

Average Time : 94 Seconds

Options :

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Herbert C Brown

2. Arne Tiselius

3. Henry Taube

4. Emil Fischer

Solution :

The correct answer is **Option 1.** i.e. **Herbert C Brown.**

In 1979 Georg Wittig, together with **Herbert C. Brown**, was awarded the Nobel Prize in Chemistry. The Royal Swedish Academy of Science honored Brown and Wittig "for their development of the use of boron- and phosphorus-containing compounds, respectively, into important reagents in organic synthesis.

- Brown discovered a method for producing sodium borohydride ($NaBH_4$), which can be used to produce boranes, compounds of boron and hydrogen. His work led to the discovery of the first general method for producing asymmetric pure enantiomers.
- He discovered that diborane reacts with aldehydes and ketones to produce dialkoxyboranes, which are hydrolyzed by water to produce alcohols.

Question 33 :

According to census 2011, the male literacy rate in India is _____.

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

Options :

1. 81.14 percent

2. 82.14 percent

3. 84.14 percent

4. 83.14 percent

Solution :

The correct answer is **Option 2.** i.e. **82.14 percent.**

The results of 2011 census reveal that there has been an increase in literacy in the country. The literacy rate in the country is 74.04 per cent, **82.14 for males** and **65.46 for females.**

Additional information-

As of 2021, India recorded a higher nationwide literacy rate among men than women, at respectively **84.4 percent** of male population and 71.5 percent of female population.

Question 34 :

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'. Solomon always refers in the dictionary for clearing doubts about words.

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

Options :

1. on the dictionary

2. No substitution

3. to the dictionary

4. with the dictionary

Solution :

The correct answer is **Option 3.** i.e. **to the dictionary.**

- The underlined segment in the given sentence is "in the dictionary".
- The correct preposition to use with the verb "refer" is "to", which means to consult or look something up.
- Therefore, the correct option that can substitute the underlined segment in the given sentence is "to the dictionary".

The corrected sentence will be:

*"Solomon always refers **to the dictionary** for clearing doubts about words."*

Question 35 :

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'. Siraz-ud-Daula beseiged Calcutta to take punitive actions against the East India Company.

Difficulty : Moderate   **Average Time : 67 Seconds**

Options :

1. besiezed

2. besiejed

3. besieged

4. No error

Solution :

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

- The underlined word in the given sentence is "besieged", which has been spelled incorrectly.
- The correct spelling of this word is "besieged".

Hence, the correct sentence would be:

"Siraz-ud-Daula **besieged** Calcutta to take punitive actions against the East India Company."

Question 36 :

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 adoloscent period of life, one of the most difficult stages of development, is known as the period of stress and storm.

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

Options :

1. adelescent

2. adolescent

3. adeloscent

4. No error

Solution :

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

- In this sentence, the word "adoloscent" has been misspelled. The correct spelling of this word is "adolescent".

Therefore, the correct option to rectify the spelling is ***"adolescent".***

Question 37 :

Select the option that expresses the given sentence in passive voice. Mandeep has repaired the truck.

Difficulty : Moderate   **Average Time : 43 Seconds**

Options :

1. The truck have been repaired by Mandeep.

The truck had been repaired by Mandeep

3. The truck is been repaired by Mandeep.

4. The truck has been repaired by Mandeep.

Solution :

The correct answer is **Option 4.** i.e. **The truck has been repaired by Mandeep.**

To change the given active voice sentence into a passive voice, we can follow these rules:

- The object of the active sentence becomes the subject of the passive sentence.
- The helping verb "has" is changed to "has been" in the passive voice.
- The main verb "repaired" is changed to its past participle form "repaired" in the passive voice.
- The doer of the action in the active voice sentence becomes the object of the preposition "by" in the passive voice sentence.

Thus, the passive form of the given sentence is:

"The truck has been repaired by Mandeep."

Question 38 :

Select the option that can be used as a one-word substitute for the underlined group of words. The man supervising the exam had a huge moustache.

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

Options :

1. Examiner

2. Curator

3. Controller

4. Invigilator

Solution :

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

The meaning of the given words is:

- **Invigilator**: A person who supervises students during an examination to ensure that the rules are followed and that no cheating occurs.

Examiner: A person who administers or conducts an examination or test.
- **Curator**: A person who is in charge of a museum, art gallery, or other collection, and who is responsible for selecting, managing, and presenting the items in the collection.
- **Controller**: A person or thing that directs, manages, or regulates something, often used to refer to someone in a position of authority who oversees a system or process.

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

Question 39 :

Rearrange the parts of the sentence in correct order. A single uranium P. pencil eraser, contains the same energy Q. pellet, slightly larger than a R. as a ton of coal, 3 barrels of oil S. or 17,000 cubic feet of natural gas

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

Options :
1. PRSQ
2. RSPQ
3. QPRS
4. RPQS

Solution :

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

- The given sentence is describing the amount of energy contained in a single uranium pellet.
- The correct order of the sentence would begin with the subject, "A single uranium pellet", followed by a description of its size, "slightly larger than a pencil eraser".
- Then, the sentence should convey the comparison being made between the energy contained in a uranium pellet and other sources of energy.
- The correct order would be: "contains the same energy as a ton of coal, 3 barrels of oil, or 17,000 cubic feet of natural gas".

Thus, the correct sentence is:

A single uranium pellet, slightly larger than a pencil eraser, contains the same energy as a ton of coal, 3 barrels of oil, or 17,000 cubic feet of natural gas.

Question 40 :

Select the correct direct form of the given sentence. Mr. Sharma asked him if Maya had invited him for lunch.

Difficulty : Moderate   **Average Time : 71 Seconds**

Options :

1. "Did Maya invite you for lunch?" asked Mr. Sharma.

   Did Maya invite you for lunch?" asked Mr. Sharma.

2. Mr. Sharma said to me, "Has Maya invited you for lunch?"

3. Mr. Sharma said to him, "Had Maya invited us for lunch?"

4. Mr. Sharma said to him, "Did Maya invited us for lunch?"

Solution :

The correct answer is **Option 1.** i.e. **Did Maya invite you for lunch?" asked Mr. Sharma.**

To change an indirect sentence to a direct sentence, the following rules are usually followed:

- Remove the conjunction 'if' or 'whether'.
- Change the order of the subject and the verb.
- Use inverted commas at the beginning and end of the sentence.

Using these rules, the indirect sentence "Mr. Sharma asked him if Maya had invited him for lunch" can be changed to the direct sentence:

"Did Maya invite you for lunch?" asked Mr. Sharma.

.

Question 41 :

Select the most appropriate synonym of the underlined word in the following sentence. Listening to the news of his father's illness, Soumen left for home with a heavy heart.

Difficulty : Moderate

Average Time : 81 Seconds

Options :

1. disturbance

2. sickness

3. disintegration

disorder

Solution :

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

The meanings of the given words is:

- **Illness**: a state of poor health or disease affecting the body or mind.
- **Disturbance**: an interruption of peace, order, or tranquility.
- **Sickness**: a state of being ill or unhealthy, especially for a prolonged period of time.
- **Disintegration**: the process of breaking down or falling apart into component parts or elements.
- **Disorder**: a state of confusion, lack of organization, or disruption of normal functions.

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

Question 42 :

Select the option that expresses the given sentence in active voice. The jewel thief was punished by the judge.

Difficulty : Moderate   Average Time : 62 Seconds

Options :

1. Punishment had been given to jewel thief.

2. The police had punished the jewel thief.

3. The judge punished the jewel thief

4. Punishment was given to jewel thief.

Solution :

The correct answer is **Option 3.** i.e. **The judge punished the jewel thief.**

To change the given sentence from passive voice to active voice, we need to follow the given rules:

- Identify the subject of the passive sentence and make it the subject of the active sentence.
- Identify the object of the passive sentence and make it the object of the active sentence.
- Use an appropriate active verb that agrees with the subject.
- Add any necessary prepositions or articles.

Following these rules, we can convert the given sentence "The jewel thief was punished by the judge" into an active voice sentence:

The judge punished the jewel thief.

Question 43 :

Select the most appropriate option to fill in the blank. The little boy demanded colourful balloons, ribbons in the village fair. When the father didn't pay heed to his demands, the boy made a_____.

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

Options :

1. cloven hoof

2. wry face

3. a far cry

4. jaundiced eye

Solution :

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

- The correct option to fill in the blank is "wry face."
- "Wry face" refers to a facial expression characterized by a distortion of the features, usually indicating disgust, disappointment or annoyance.
- In the given context, the little boy made a wry face when his father didn't pay attention to his demands for colourful balloons and ribbons at the village fair.

Thus, the correct sentence is:

*The little boy demanded colourful balloons, ribbons in the village fair. When the father didn't pay heed to his demands, the boy made a **wry face.***

Question 44 :

Select the most appropriate option that can substitute the underlined segment in the given sentence. One of my friends is gone to Goa for a holiday.

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

Options :

1. has gone

2. are gone

    gone

4. were gone

Solution :

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

- The underlined segment of the given sentence is "is gone".
- The use of "is gone" is not grammatically correct. The correct form of this sentence in the present perfect tense would be "has gone".
- The most appropriate option that can substitute the underlined segment is "has gone", which is grammatically correct.

The correct sentence would be:

 "One of my friends **has gone** to Goa for a holiday."

Question 45 :

The following sentence has been split into four segments. Identify the segment that contains a grammatical error. Neither the doctors nor / the nurse were present / when the patient / reached the hospital.

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

Options :

1. Neither the doctors nor

2. the nurse were present

3. when the patient

4. reached the hospital.

Solution :

The correct answer is **Option 2.** i.e. **the nurse were present.**

- The segment that contains a grammatical error is: "the nurse were present".
- The verb "were" is incorrect as it does not agree with the singular noun "the nurse".
- The correct verb form should be "was" to agree with the singular noun.

The correct sentence should be:

*"Neither the doctors nor **the nurse was present** when the patient reached the hospital."*

Question 46 :

Select the most appropriate option to fill in the blank. Although I have a good job, I wish to take the _____ of starting my own business.

Difficulty : Moderate   Average Time : 61 Seconds

Options :

1. back

2. seat

3. look

4. risk

Solution :

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

- The blank in the sentence indicates that the missing word should be related to taking a chance or a leap of faith.
- Out of the given options, "risk" is the most appropriate option that fits the context and meaning of the sentence. It means taking a chance, taking a leap of faith, or taking a risk.

Thus, the completed sentence would be:

*"Although I have a good job, I wish to take the **risk** of starting my own business."*

Question 47 :

Select the most appropriate synonym of the bracketed word to fill in the blank. If we want to progress, we must sometimes embrace _____ (mutate).

Difficulty : Moderate   Average Time : 61 Seconds

Options :

1. replicate

2. imitate

3. change

4. incise

Solution :

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

- The given sentence is asking to choose a word that is similar in meaning to 'mutate' and can replace it in the sentence to maintain its coherence.
- **Option A**, 'replicate,' is not the correct answer as it means to copy something exactly as it is, which does not convey the intended meaning of 'mutate.'
- **Option B**, 'imitate,' is not the correct answer as it means to copy or mimic something, which is again not the intended meaning of 'mutate.'
- **Option C**, 'change,' is not the correct answer as it means to make or become different, but it does not necessarily imply any sort of progression, which is the context of the sentence.
- Therefore, the correct answer is **option D**, 'incise,' which means to make a cut or an incision, which can be related to the idea of making changes and progress.

Thus, the correct sentence is:

If we want to progress, we must sometimes embrace **incise.**

Question 48 :
The question below consists of a set of labeled sentences. Out of the four options given, select the most logical order of the sentences to form a coherent paragraph. P. As a boy Elon was a keen reader and learnt how to code computers. Q. He even made his own video game called Blastar. R. Later he moved to Canada and then the United States setting up his first company with his brother Kimbal in 1995. S. But after some time, he sold that company to create a company called X.com.

Difficulty : Moderate   **Average Time : 101 Seconds**

Options :

1. RPSQ

2. PRSQ

3. SQRP

4. PQRS

Solution :
The correct answer is **Option 4**. i.e. **PQRS.**

- The sentences are labeled P, Q, R, and S. The paragraph talks about Elon Musk's journey.
- The first sentence, P, introduces Elon Musk as a boy who was a keen reader and learnt how to code computers.
- The second sentence, Q, mentions how he even made his own video game called Blastar.

The third sentence, R, talks about his move to Canada and the United States, setting up his first company with his brother Kimbal in 1995.

- Finally, sentence S talks about how he sold that company to create another company called X.com.
- Therefore, the correct logical order of the sentences is: **P Q R S**.

Thus, the most appropriate paragraph is:

As a boy Elon was a keen reader and learnt how to code computers. He even made his own video game called Blastar. Later he moved to Canada and then the United States setting up his first company with his brother Kimbal in 1995. But after some time, he sold that company to create a company called X.com.

Question 49 :

Select the most appropriate option that can substitute the underlined segment in the given sentence. Mr. Raghav racked his brain, but couldn't think where he had left the book.

Difficulty : Moderate   **Average Time : 87 Seconds**

Options :

1. thought very hard

2. had a series of consecutive thoughts

3. knew it, but couldn't quite remember it

4. thought he had heard something before

Solution :

The correct answer is **Option 1.** i.e. **thought very hard.**

- The phrase "racked his brain" means that someone is trying very hard to remember or figure something out.
- It implies that the person is putting a lot of effort into the mental task, and possibly feeling frustrated or exhausted from the effort.
- In the context of the given sentence, it suggests that Mr. Raghav is making a great effort to remember where he left the book, but is having difficulty doing so.

*Thus, the most appropriate choice among the given options is **thought very hard.***

Question 50 :

Select the most appropriate ANTONYM of the underlined word. The recent disaster of unprecedented floods in June 2013 in the state of Uttarakhand devastated many towns and villages on the banks of the rivers Bhagirathi, Pindar, Mandakini, Alaknanda and Sarju.

Difficulty : Moderate   **Average Time : 70 Seconds**

Options :

1. Lacklustre

2. Tarnished

3. Familiar

4. Deranged

Solution :

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

The meaning of the given words is:

- **Unprecedented**: never done or known before.
- **Familiar**: well known from long or close association.
- **Lacklustre**: lacking in vitality, force, or conviction; uninspired or uninspiring.
- **Tarnished**: make or become less valuable or respected.
- **Deranged:** mad; insane.

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

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. Tattooing is a talent that requires a lot of time and (1)_____. There are many various kinds and (2)_____ of tattooing. Tattooing was and still is a means to communicate someone's thoughts or life by permanently (3)_____ a design of ink and colour into their flesh. The first step in tattooing is to develop an artistic (4)_____ and the skill to sketch and create your artwork. Tattooing penmanship is far more (5)_____ than sketching on paper.

Question 51 :

Select the most appropriate answer to fill in blank 1.

Difficulty : Moderate   **Average Time : 81 Seconds**

Options :

1. integrity

2. capacity

liability

4. ability

Solution :

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

- The sentence is structured as a statement that describes a characteristic of tattooing.
- The word "talent" indicates that tattooing is a skill or an aptitude that needs to be developed over time.
- The phrase "requires a lot of time" emphasizes the effort that goes into developing this skill.
- The word "capacity" refers to the maximum amount of something that can be contained or produced, which does not fit in the context of the sentence.
- The word "liability" refers to legal responsibility for something, which is not relevant to the topic of tattooing.
- Finally, the word "integrity" refers to the quality of being honest and having strong moral principles, which does not relate to the skill or aptitude required for tattooing.

Thus, the correct sentence is:

*Tattooing is a talent that requires a lot of time and **ability**.*

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. Tattooing is a talent that requires a lot of time and (1)_____. There are many various kinds and (2)_____ of tattooing. Tattooing was and still is a means to communicate someone's thoughts or life by permanently (3)_____ a design of ink and colour into their flesh. The first step in tattooing is to develop an artistic (4)_____ and the skill to sketch and create your artwork. Tattooing penmanship is far more (5)_____ than sketching on paper.

Question 52 :

Select the most appropriate answer to fill in blank 2.

Difficulty : Moderate

Average Time : 102 Seconds

Options :

1. views

2. genres

3. keys

4. gestures

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Solution :

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

- This question is asking the test-taker to select the appropriate word to fill in the blank from a given set of options.
- The blank is preceded by the phrase "various kinds and" indicating that the word that best fits the sentence should refer to different types or categories.
- The correct answer is "genres," as it refers to different styles or categories within a particular art form, in this case, tattooing.

Thus, the correct sentence is:

*There are many various kinds and **genres** of tattooing.*

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. Tattooing is a talent that requires a lot of time and (1)_____. There are many various kinds and (2)_____ of tattooing. Tattooing was and still is a means to communicate someone's thoughts or life by permanently (3)_____ a design of ink and colour into their flesh. The first step in tattooing is to develop an artistic (4)_____ and the skill to sketch and create your artwork. Tattooing penmanship is far more (5)_____ than sketching on paper.

Question 53 :
Select the most appropriate answer to fill in blank 3.

Difficulty : Moderate   Average Time : 85 Seconds

Options :
1. detaching
2. embedding
3. combining
4. fertilising

Solution :

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

- The sentence is asking to fill in the blank with the appropriate present participle verb that correctly completes the sentence.
- The present participle verbs given as options are "detaching," "embedding," "combining," and "fertilising."
- The blank should be filled with the present participle verb that means "permanently attaching a design of ink and

color into someone's flesh."
- Therefore, the correct answer is "embedding."

Thus, the correct sentence is:

*Tattooing was and still is a means to communicate someone's thoughts or life by permanently **embedding** a design of ink and colour into their flesh.*

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. Tattooing is a talent that requires a lot of time and (1)_____. There are many various kinds and (2)_____ of tattooing. Tattooing was and still is a means to communicate someone's thoughts or life by permanently (3)_____ a design of ink and colour into their flesh. The first step in tattooing is to develop an artistic (4)_____ and the skill to sketch and create your artwork. Tattooing penmanship is far more (5)_____ than sketching on paper.

Question 54 :
Select the most appropriate answer to fill in blank 4.

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

Options :
1. glimpse
2. drama
3. attitude
4. career

Solution :
The correct answer is **Option 3.** i.e. **attitude.**

- In the given sentence, the blank is to be filled with an appropriate noun that describes the quality or attribute needed to start tattooing.
- The sentence structure is subject-verb-object, where the subject is "the first step in tattooing," the verb is "is," and the object is "to develop an artistic _____ and the skill to sketch and create your artwork."
- The noun that fits the context of the sentence is "attitude," meaning a settled way of thinking or feeling about something, which is required to create the artwork.
- Thus, the most appropriate filler for the given blank is **attitude.**

Therefore, the correct sentence is:

*The first step in tattooing is to develop an artistic **attitude** and the skill to sketch and create your artwork.*

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. Tattooing is a talent that requires a lot of time and (1)_____. There are many various kinds and (2)_____ of tattooing. Tattooing was and still is a means to communicate someone's thoughts or life by permanently (3)_____ a design of ink and colour into their flesh. The first step in tattooing is to develop an artistic (4)_____ and the skill to sketch and create your artwork. Tattooing penmanship is far more (5)_____ than sketching on paper.

Question 55 :

Select the most appropriate answer to fill in blank 5.

Difficulty : Moderate   **Average Time : 96 Seconds**

Options :

1. aggravated

2. confiscated

3. complicated

4. authenticated

Solution :

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

- In the given sentence, the word "than" indicates a comparison is being made between two things: tattooing penmanship and sketching on paper.
- The missing word needs to describe how tattooing penmanship is different from sketching on paper.
- " Only one of these options can correctly describe the difference between tattooing penmanship and sketching on paper.
- The sentence structure requires an adjective to complete the comparison.
- Therefore, the correct option to fill the blank is "complicated," which means that tattooing penmanship is more intricate and difficult than sketching on paper.

Thus, the correct sentence is:

 Tattooing penmanship is far more **complicated** than sketching on paper.

Question 56 :

Three different positions of the same dice are shown (Figures 1 to 3). Find the number on the face opposite to the face having '1'.

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

Options :

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

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

In the first and second dice, 2 and 4 are common. So, the remaining face will be opposite to each other. Hence, 6 is opposite to 3.

In the second and third dice, 6 and 4 are common. So, the remaining face will be opposite to each other. Hence, 2 is opposite to 5.

So, the remaining position of the dice is the opposite pair i.e. 1 is opposite to 4.
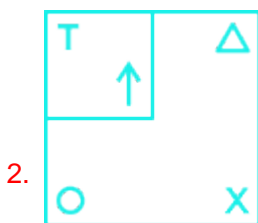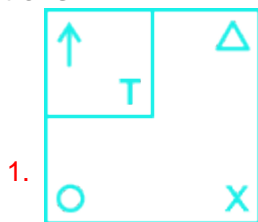
Hence, **option 4** is the correct answer.

Question 57 :
Which figure should replace the question mark (?) If the series were to be continued.

Difficulty : Moderate

Average Time : 53 Seconds

Options :

1.

2.

3.

4.

Solution :

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

Given:
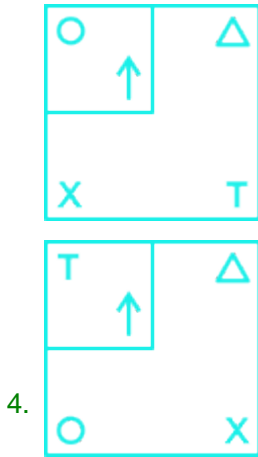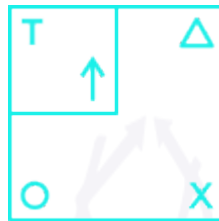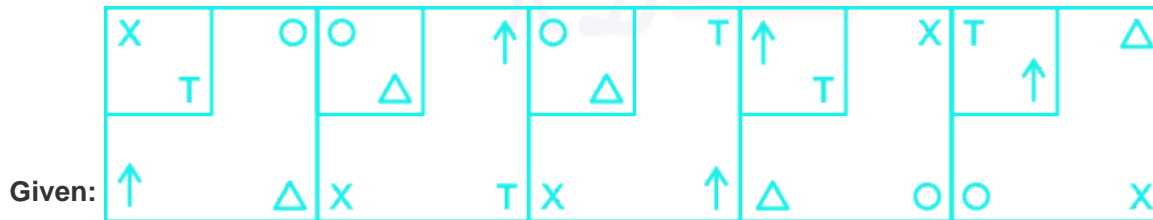
Logic: Elements are moving one step anticlockwise. Elements present in the small square come out after becoming inverted images. So, in the next figure, the arrow and T become inverted and the remaining elements move anticlockwise ahead.

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

Question 58 :
After interchanging the given two numbers and two signs what will be the values of equations (I) and (II) respectively? + and ×, 5 and 4 I. $4 + 6 \times 5 - 7 \div 1$ II. $5 \times 3 - 4 + 8 \div 2$

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

Options :
1. –9, –8

30, –13

3. 20, 6

4. 27, –13

Solution :

The correct answer is **Option 4** i.e. **27, –13.**

Given equation:

I. 4 + 6 × 5 – 7 ÷ 1

II. 5 × 3 – 4 + 8 ÷ 2

Given conditions: + and ×, 5 and 4

After interchanging the expression becomes:

I. 4 + 6 × 5 – 7 ÷ 1

= 5 × 6 + 4 – 7 ÷ 1

= 5 × 6 + 4 – 7

= 30 + 4 – 7

= 27

II. 5 × 3 – 4 + 8 ÷ 2

= 4 + 3 – 5 × 8 ÷ 2

= 4 + 3 – 5 × 4

= 4 + 3 – 20

= -13

Hence, **optio4** is the correct answer.

Question 59 :

Select the correct combination of mathematical signs to sequentially replace the * signs and balance the given equation.
99 * 33 * 66 * 22 * 44 * 50

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

Options :

÷, +, ×, +, =

2. +, , ÷, , =

3. ÷, +, ÷, +, =

4. ÷, , +, ×, =

Solution :

The correct answer is **Option 3** i.e. **÷, +, ÷, +, =.**

Given equation: 99 * 33 * 66 * 22 * 44 * 50

Option 1: ÷, +, ×, +, =

After interchanging the expression becomes:

= 99 ÷ 33 + 66 × 22 + 44 = 50

= 3 + 66 × 22 + 44

= 3 + 1452 + 44

= 1499 is not equal to 50.

Option 2: +, , ÷, , =

After interchanging the expression becomes:

= 99 + 33 - 66 ÷ 22 - 44 = 50

= 99 + 33 - 3 - 44

= 132 - 3 - 44

= 85 is not equal to 50.

Option 3: ÷, +, ÷, +, =

After interchanging the expression becomes:

= 99 ÷ 33 + 66 ÷ 22 + 44 = 50

= 3 + 3 + 44

= 50 is equal to 50.

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

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

Question 60 :

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 : 72 Seconds

Options :

1. EVS

2. IRP

3. VEB

4. GTQ

Solution :

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

The logic used here is:

Opposite of 1st letter = 2nd letter

2nd letter - 3 = 3rd letter

Option 1: EVS

Opposite of E = V

V - 3 = S

This follows the logic.

Option 2: IRP

Opposite of I = R

R - 3 = O

This does not follow the logic.

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

Question 61 :

Select the option that represents the correct order of the given words as they would appear in an English dictionary. 1. Fustian 2. Funerary 3. Fusion 4. Funicular 5. Fuscous 6. Fundament 7. Fuselage

Difficulty : Moderate

Average Time : 57 Seconds

Options :

1. 6, 2, 5, 7, 3, 4, 1

2. 6, 2, 5, 7, 4, 1, 3

3. 6, 2, 4, 5, 7, 3, 1

4. 6, 2, 5, 4, 7, 3, 1

Solution :

The correct answer is **Option 3** i.e. **6, 2, 4, 5, 7, 3, 1.**

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

1. Fundament

2. Funerary

3. Funicular

4. Fuscous

5. Fuselage

6. Fusion

7. Fustian

Question 62 :
A + B means 'A is the father of B' A – B means 'A is the mother of B' A % B means 'A is the brother of B' A & B means 'A is the son of B' If A + B & C – D + E, then how is A related to E?

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

Options :

1. Father's brother

2. Father

3. Brother

4. Father's father

Solution :

The correct answer is **Option 4** i.e. **Father's father.**

In the diagram shown;

Page No: 47

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.
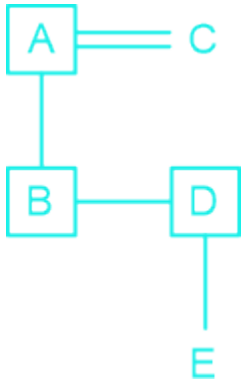
From the above figure, A is the father's father of E.

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

Question 63 :
Select the option in which the given figure (X) is embedded as its part (rotation is NOT allowed).
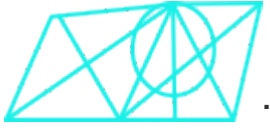
Difficulty : Moderate   **Average Time : 56 Seconds**

Options :

1.

2.

3.

4.

Solution :

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

.

The given figure is embedded in option 3, as shown below:

Question 64 :

Select the option that is exactly representing the word-pair, the relation which is expressed in the given pair of words (The words should be treated as meaningful English/Hindi words and should not be linked to each other on the basis of the number of letters/number of consonants/number of vowels in the word.) Pen : Cob

Difficulty : Moderate   **Average Time : 74 Seconds**

Options :

1. Adult : Baby

2. Sorceress : Sorcerer

3. Banyan : Tree

4. Pig : Piglet

Solution :

The correct answer is **Option 2** i.e. **Sorceress : Sorcerer**

Pen : Cob

Pen: The female swan is called a pen.

Cob: The male swan is called a cob.

Sorceress : Sorcer

Sorceress: The female magician is called a sorceress.

Sorcerer: The male magician is called a sorcerer.

Hence, the correct answer is **Sorceress : Sorcerer.**

Question 65 :

Select the correct mirror image of the given combination when the mirror is placed at line MN as shown.

Difficulty : Moderate

Average Time : 51 Seconds

Options :

1. ɯ ᴘ Ƨ 6 ʃ ʏ
2. ɯ ᖺ Ƨ ᧚ ʃ ʏ
3. ɯ ᖺ Ƨ 6 ʃ ʏ
4. ɯ � Ƨ ᧚ ʃ ʏ

Solution :

The correct answer is **Option 4** i.e. ɯ ᖺ Ƨ ᧚ ʃ ʏ.

The mirror image of the question figure is shown below:

y j 9 2 b m | m d 2 e j y

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

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

Question 66 :
Which of the following letter clusters will replace the question mark (?) in the given series? LAT, NDR, PGP, ?, TML

Difficulty : Moderate

Average Time : 73 Seconds

Options :

1. SKO

2. RKN

3. SJO

4. RJN

Solution :

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

Given series: LAT, NDR, PGP, ?, TML

The series follows this pattern:

LAT, NDR

L + 2 = N

A + 3 = D

T - 2 = R

NDR, PGP

N + 2 = P

D + 3 = G

R - 2 = P

PGP, ?

P + 2 = R

G + 3 = J

P - 2 = N

RJN, TML

R + 2 = T

J + 3 = M

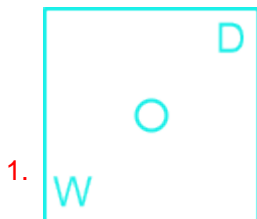N - 2 = L

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

Question 67 :
Select the figure from among the given option that can replace the question mark (?) in the following series.
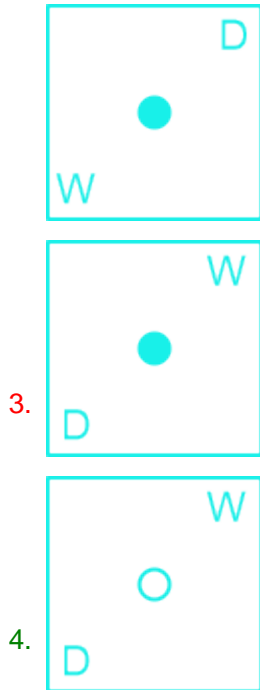
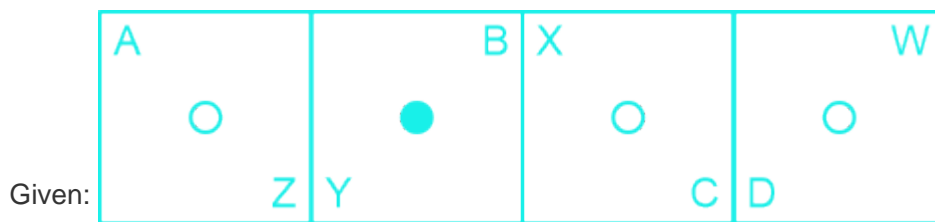**Difficulty : Moderate**   **Average Time : 58 Seconds**

Options :

1.

2.

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3.

4.

Solution :

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

Given:

Logic: Elemets A, B, C, .. so on these are moving clockwise on corners of the square and the opposite letters of these are written diagonally. Circle is shaded or not shaded is used alternatively. In this way next element is D and the opposite of D is W.

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

Question 68 :

Select the option that is related to the fifth letter cluster in the same way as the second letter cluster is related to the first letter cluster and the fourth letter cluster is related to the third letter cluster. CONTROL: NOCTRLO:: MISTAKE:

SIMTAEK:: JOURNAL:?

Difficulty : Moderate
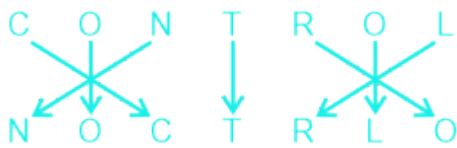
Average Time : 82 Seconds

Options :

1. AOUNRJL
2. OJRLAUN
3. JRNAOUL
4. UOJRNLA
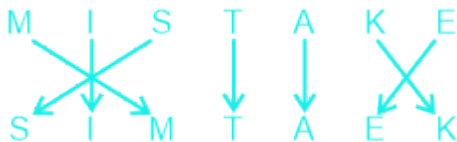
Solution :

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

The logic used here is:

CONTROL: NOCTRLO

MISTAKE: SIMTAEK

Similarly,

JOURNAL:?

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

Question 69 :

In an election between two candidates, the defeated candidate secured 42% of the valid votes polled and lost the election by 7,68,400 votes. If 82,560 votes were declared invalid and 20% people did NOT cast their vote, then the invalid votes

were what percentage (rounded off to 1 decimal place) of the votes which people did NOT cast?

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

Options :

1. 10.6 Percent

2. 9.8 Percent

3. 12.9 Percent

4. 6.8 Percent

Solution :

The correct answer is **Option 4.** i.e. **6.8 Percent.**

Given:

Percentage of votes of defeated candidate = 42% and lost election by 7,68,400 votes

Invalid votes = 82,560

20% people did not cast their votes.

Explanation:

Total valid votes by winning candidate = (100 - 42) = 58%

Percentage difference between winner and loser = (58 - 42) = 16%

The total number of valid votes = 7,68,400 ÷ 16% = 4802500

Total number of votes (valid + invalid) = 4802500 + 82560 = 4885060

Total number of voter = 4885060 ÷ (100 - 20)% = 4885060 ÷ 80% = 6106325

Number of people who didn't cast vote = 6106325 × 20% = 1221265

Now, required percentage = (82560/1221265) × 100 = 6.7602 6.8%

Hence the required percentage = 6.8%.

Question 70 :

If the side of an equilateral triangle is 24 cm, then what is its area?

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

Options :

169 $\sqrt{3}$ cm^2

2. 125 $\sqrt{3}$ cm^2

3. 256 $\sqrt{3}$ cm^2

4. 144 $\sqrt{3}$ cm^2

Solution :

The correct answer is **Option 4.** i.e. **144 $\sqrt{3}$ cm^2**

Given:

Side of equilateral triangle = 24 cm

Concept USed:

Area of equiateral triangle = $\frac{\sqrt{3}}{4} a^2$

Explanation:

Using the above formula,

Area of the given triangle = $\frac{\sqrt{3}}{4} (24)^2$ = $144 \sqrt{3}$

Hence the area of the equilateral triangle is $144 \sqrt{3}$.

Question 71 :
Study the following chart and answer the question that follows. The chart shows the quantity of substances (P1, P2 , P3) in different drugs (A, B, C, D). Which substance is/are most used in terms of quantity in all drugs?

Difficulty : Moderate   **Average Time : 91 Seconds**

Options :

1. P1 and P3

2. P3

3. P2

4. P1

Solution :

The correct answer is **Option 4.** i.e. **P1.**

Explanation:

From the iven graph, we can see

The use of substance P1 = (6 + 4 + 3 + 5) = **18 mg**

The use of substance P2 = (3 + 3 + 5 + 4) = 15 mg

The use of substance P3 = (4 + 3 + 5 + 4) = 16 mg

Hence substance P1 is used most.

Question 72 :
Find the weighted arithmetic mean of the first 'n' natural numbers, the weights being the corresponding numbers.

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

Options :

1. $\frac{n(n+1)(2n+1)}{6}$

2. $\frac{n(n+1)}{2}$

3. $\frac{(2n+1)}{3}$

4. n

Solution :

The correct answer is **Option 3.** i.e. $\frac{(2n+1)}{3}$

Concept Used:

Sum of squares of the first 'n' natural numbers = $\frac{n(n + 1)(2n + 1)}{6}$

Sum of first 'n' natural numbers = $\frac{n(n + 1)}{2}$

Explanation:

First 'n' natural numbers = 1, 2, 3, ...,n

Their coresponding weights = 1, 2, 3, ...,n

Now, weighted arithmetic mean = $\frac{(1 \times 1 + 2 \times 2 + 3 \times 3 + ...+ n \times n)}{(1 + 2+ 3+ ....+ n)}$

$\frac{1^2 + 2^2 + 3^2 + ...+ n^2}{1 + 2 +3+....+ n}$

$\frac{\frac{n(n + 1)(2n + 1)}{6}}{\frac{n(n+1)}{2}}$

$\frac{2n + 1}{3}$

Hence the weighted arithmetic mean of the first 'n' natural numbers is $\frac{2n + 1}{3}$.

Question 73 :

A district has 10,24,000 inhabitants. If the population increases at the rate 2.5% per annum, find the number of inhabitants at the end of three years.

Difficulty : Moderate   Average Time : 83 Seconds

Options :

1. 11,20,736
2. 11,02,736
3. 10,75,840
4. 10,64,850

Solution :

The correct answer is **Option 2.** i.e. **11,02,736.**

Given:

Present population = 10,24000

Increment = 2.5%

Concept Used:

$New\ population = present\ population \times (1 + \frac{increment}{100})^t$ ....(i)

Explanation:

Using equation (i), New population = $10,24000 \times (1 + \frac{2.5}{100})^3$

 New population = $10,24000 \times (\frac{102.5}{100})^3$

  New population = 11,02,736

Hence the population after 3 years is 11,02,736.

Question 74 :

A takes twice as much time as B and thrice as much time as C to finalise a task. Working together, they can complete the task in 8 days. The time (in days) taken by A, B and C, respectively, to complete the task is:

Difficulty : Moderate   Average Time : 59 Seconds

Options :

  42, 21, 14

2. 60, 30, 20

3. 54, 27, 18

4. 48, 24, 16

Solution :

The correct answer is **Option 4.** i.e. **48, 24, 16.**

Given:

A takes twice as much time as B and thrice as much time as C to finalise a task

A, B and C can together complete the task in 8 days.

Explanation:

Let the time taken by A, B and C are x days, x/2 days and x/3 days respectively.

According to the given question, $\frac{1}{x} + \frac{2}{x} + \frac{3}{x} = \frac{1}{8}$

 x = 48

So, A takes 48 days to complete it alone.

B takes x/2 = 48/2 = 24 days to complete it alone

C takes x/3 = 48/3 = 16 days to complete it alone

Hence the time taken by A, B and C alone is 48, 24, 16 days respectively.

Question 75 :
Simplify $\left(\frac{x^2+2x+y^2}{x^3-5x^2}\right)$ if $\left(x+\frac{y^2}{x}=5\right)$.

Difficulty : Moderate   **Average Time : 67 Seconds**

Options :

  1. $\frac{5}{y^2}$

  2. $\frac{7}{y^2}$

  3. $-\frac{5}{y^2}$

  4.

$-{7 \over y^2}$

Solution :

The correct answer is **Option 4.** i.e. $-{7 \over y^2}$

Given:

$x+{y^2 \over x}=5$ ....(i)

Explanation:

According to the given question, ${x^2+2x+y^2 \over x^3-5x^2}$

Taking x common from the numerator and denominator, we get

${x+2+{y^2 \over x} \over x^2-5x}$

Using equation (i), we get

${5 + 2 \over (-y^2)}$ = $- 7 \over y^2$

Hence the required value is $- 7 \over y^2$.

Question 76 :
If the diameter of a hemisphere is 28 cm, then what is the volume of hemisphere?

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

Options :
1. 5749.33 cm^3
2. 6349.22 cm^2
3. 6728.11 cm^3
4. 5124.44 cm^3

Solution :
The correct answer is **Option 1.** i.e. **5749.33 cm^3.**

Given:

Diameter of hemisphere = 28 cm

Concept Used:

$Volume\ of\ hemisphere = {2 \over 3} \pi r^3$ ...(i)

Explanation:

Radius = ½ × diameter = ½ × 28 = 14cm

Now, using equation (i), we get

Volume of hemisphere = $({2 \over 3}\times {22 \over 7} \times (14)^3)$ = 5749.33

Hence the volume of the given hemisphere is 5749.33 cm^3.

Question 77 :
If a + b = 5 and ab = 6, then find 3(a2 + b2).

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

Options :

1. 39

2. 48

3. 26

4. 13

Solution :
The correct answer is **Option 1.** i.e. **39.**

Given:

a + b = 5

ab = 6   ....(i)

Concept Used:

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

Explanation:

Using equation (ii), we get

$(a + b)^2 = 5^2$

$a^2 + 2ab + b^2 = 25$

$a^2 + b^2 + 2(6) = 25$

$a^2 + b^2 = 13$

Now, the required value is $3(a^2 + b^2) = 3(13) = 39$

Hence the required value is 39.

Question 78 :
In ABC, AB = AC, O is a point on BC such that BO = CO and OD is perpendicular to AB and OE is perpendicular to AC. If BOD = 60°, then measure of AOE is:

Difficulty : Moderate

Average Time : 66 Seconds

Options :
1. 120°
2. 60°
3. 30°
4. 90°

Solution :
The correct answer is **Option 3.** i.e. **30°.**

Given:

In ABC, AB = AC, O is a point on BC such that BO = CO and OD is perpendicular to AB and OE is perpendicular to AC.

BOD = 60°

Concept Used:

In ABC, A + B + C = 180°

Explanation:

In ABC, OBD is a right angled triangle at D and BOD = 60°

So, OBD = 90° - 60° = 30°

Since in ABC, AB = AC, OBD = ACB = ABC = 30°

BAC = 180° - 2 × 30° = 120

Since BO = CO, AO is the median

Then, BAO = OAC = OAE = 120°/2 = 60°

Since OE is perpendicular to AC, OEA is a right angled triangle at E.

Therefore, AOE = 90° - 60° = 30°.

Hence the required angle is AOE = 30°.

Question 79 :
The reduction of 20% in the price of rice enables a person to obtain 50 kg more for Rs.450. Find the original price of rice per kg.

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

Options :

1. Rs.1

2. Rs.2

3. Rs.1.25

4. Rs.2.25

Solution :
The correct answer is **Option 4.** i.e. **Rs.2.25.**

Given:

Reduction = 20%

A person can buy 50 kg more rice for Rs. 450

Concept Used:

Incremented/reduced value = Initial value(1 $\pm$ change%)   ....(i)

Explanation:

Let initially the person can buy x kg rice for Rs. 450

Now, for Rs. 450, a person can buy (x + 50) kg rice.

So, using equation (i), we get

$\frac{450}{(x + 50)} = \frac{450}{x} \times (1 - 0.2)$

$\frac{1}{(x + 50)} = \frac{1}{x} \times \frac{4}{5}$

5x = 4x + 200

x = 200

Hence the original price(per kg) of rice is $450 \over 200$ = Rs. 2.25.

Question 80 :

The surface area of a cube is 864 cm2 . The volume of the cube is _____.

Difficulty : Moderate   **Average Time : 66 Seconds**

Options :

1. 1728 cm^3

2. 2197 cm^3

3. 1331 cm^3

4. 729 cm^3

Solution :

The correct answer is **Option 1.** i.e. **1728 cm^3 .**

Given:

Surface area of cube = 864 cm^2

Concept Used:

Surface area of cube = 6a^2 ....(i)

Volume of cube = a^3 ...(ii)

Explanation:

Let the side of the cube be a cm

Using equation (i), 6a^2 = 864

a^2 = 144

a = 12

Using equation (ii), volume of cube = (12)^3 = 1728

Hence volume of given cube is 1728 cm^3 .

Question 81 :

In a certain code language, 'DENTIST' is written as 'CDMSHRS', and 'TOOTH' is written as 'SNNSG', how will 'HEALING' be written in that language?

Difficulty : Moderate

Average Time : 65 Seconds

Options :

1. IFBMJOH
2. GDZMJOH
3. IFBKHMF
4. GDZKHMF

Solution :

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

The logic used here is:

'DENTIST' is written as 'CDMSHRS'

D - 1 = C

E - 1 = D

N - 1 = M

T - 1 = S

I - 1 = H

S - 1 = R

T - 1 = S

'TOOTH' is written as 'SNNSG'

T - 1 = S

O - 1 = N

O - 1 = N

T - 1 = S

H - 1 = G

Similarly;

Code for the word HEALING:

H - 1 = G

E - 1 = D

A - 1 = Z

L - 1 = K

I - 1 = H

N - 1 = M

G - 1 = F

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

Question 82 :
A laptop is sold for Rs.65,520 after a discount of 25%. What was the marked price of the laptop?

Difficulty : Moderate   **Average Time : 70 Seconds**

Options :

1. Rs.87,630

2. Rs.87,360

3. Rs.87,370

4. Rs.87,760

Solution :
The correct answer is **Option 2.** i.e. **Rs.87,360.**

Given:

S.P. = ₹65,520

Discount, D = 25%

Concept Used:

S.P. = $M.P. \times {(100 - D) \over 100}$ .....(i)

Explanation:

From equation (i), 65,520 = $M.P. \times {(100 - 25) \over 100}$

M.P. = ${65,520 \times 100} \over 75$

M.P. = 87,360

Hence the marked price is **â‚¹87,360.**

Question 83 :

In a class of students, the first student has 2 toffees, second has 4 toffees, third has 6 toffees and so on. If the number of students in the class is 25, then the total number of toffees are divisible by _____.

Difficulty : Moderate

Average Time : 60 Seconds

Options :

1. 5 and 7

2. 5 and 13

3. 11 and 13

4. 7 and 11

Solution :

The correct answer is **Option 2.** i.e. **5 and 13.**

Given:

First student has 2 toffees,

Second student has 4 toffees, and

Third student has 6 toffees and so on.

Concept Used:

Sum of n terms of AP = ½ (L + A) × n   ....(i)

n^{th} term of AP = A + (n - 1)D   ...(ii)

Where, L = last term, A = first term, D = common difference, n = number of terms

Explanation:

The number of toffees are in AP, where first term is 2.

Common difference = (4 - 2) = 2

The number of toffees with last (25th) student = 2 + (25 - 1) × 2 = 50 toffees   {using equation (ii)}

Now, sum of toffees = ½ (2 + 50) × 25   {using equation (i)}

 sum of toffees = 26 × 25 = 13 × 2 × 5^2

Hence the total number of toffees are divisible by 5 and 13.

Question 84 :

What will be the least number which when doubled will be exactly divisible by 15, 18, 25 and 32?

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

Options :

1. 3600

2. 7200

3. 6400

4. 3200

Solution :

The correct answer is **Option 1.** i.e. **3600.**

Explanation:

Taking LCM of given numbers, LCM of (15, 18, 25, 32) = 7200

The least number which when doubled will be exactly divisible by given numbers = 7200/2 = 3600

Hence the required number is 3600.

Question 85 :

The table given below shows the marks obtained by six students in two subjects If the maximum marks for subject P is 900 then what percentage of marks are obtained by A in subject P?

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

Options :

1. 125.5 percent

2. 16.67 percent

3. 9.09 percent

11.11 percent

Solution :

The correct answer is **Option 2.** i.e. **16.67 percent.**

Explanation:

Required percentage = $\frac{Marks\ of\ A\ in\ subject\ P}{maximum\ marks\ in\ subject\ P} \times 100$

$\frac{150}{900} \times 100$ = 16.67

Hence the required percentage is 16.67%.

Question 86 :
By interchanging the given two signs and numbers which of the following equation will be correct? × and +, 9 and 6

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

Options :

1. 7 × 6 ÷ 3 + 9 − 8 = 17

2. 6 × 8 − 9 ÷ 3 + 5 = 50

3. 7 + 6 × 4 ÷ 9 − 8 = 8

4. 9 × 7 + 4 ÷ 1 − 6 = 7

Solution :

The correct answer is **Option 1** i.e. **7 × 6 ÷ 3 + 9 − 8 = 17.**

Given condition: × and +, 9 and 6

Option 1: 7 × 6 ÷ 3 + 9 − 8 = 17

After interchanging the expression becomes:

= 7 + 9 ÷ 3 × 6 − 8 = 17

= 7 + 3 × 6 − 8

= 7 + 18 - 8

= 25 - 8

= 17 is equal to 17.

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

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

Question 87 :

Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements. Statements: Some grasses are trees. Some trees are branches. Some branches are dogs. Conclusions: I. Some grasses are branches. II. Some trees are dogs. III. Some grasses are dogs. IV. Some branches are grasses.
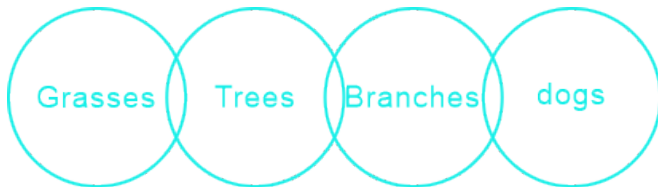
Difficulty : Moderate   **Average Time : 71 Seconds**

Options :

1. None of the conclusions follow

2. Only conclusions II and III follow

3. Only conclusions III and IV follow

4. Only conclusions I and II follow

Solution :

The correct answer is **Option 1** i.e. **None of the conclusions follow.**

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

Conclusions:

I. Some grasses are branches **False** (It is possible, but no definite conclusion can be drawn.)

II. Some trees are dogs **False** (It is possible, but no definite conclusion can be drawn.)

III. Some grasses are dogs **False** (It is possible, but no definite conclusion can be drawn.)

IV. Some branches are grasses **False** (It is possible, but no definite conclusion can be drawn.)

Hence, **None of the conclusions follow.**

Question 88 :

In ∆ ABC, right-angled at B, AB = 7 cm and AC − BC = 1 cm. Find the value of sin C.

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

Options :

1. 3/7
2. 12/13
3. 3/25
4. 7/25

Solution :

The correct answer is **Option 4.** i.e. **7/25.**

Given:

AB = 7 cm

AC – BC = 1 cm

Concept Used:

Pythagoras theorem, $P^2 + B^2 = H^2$

Explanation:

Let BC = x, AC = 1 + x

In △ ABC, $AC^2 = AB^2 + BC^2$

$(1 + x)^2 = 7^2 + x^2$

$x^2 + 2x + 1 = 49 + x^2$

$2x = 48$

$x = 24$

So, BC = 24 cm and AC = 1 + BC = 1 + 24 = 25 cm

Now, sinC = AB/AC = 7/25

Hence the value of sinC is 7/25.

Question 89 :

In a 400-metre race, A runs at a speed of 16 m/sec. If A gives B a start of 15 metres and still beats him by 10 sec, then what is the speed of B?

Difficulty : Moderate   **Average Time : 67 Seconds**

Options :

11 m/sec

2. 10 m/sec

3. 13 m/sec

4. 9 m/sec

Solution :

The correct answer is **Option 1.** i.e. **11 m/sec.**

Given:

Total distance = 400 m

Speed of A = 16 m/s

Concept Used:

Diatance = Speed × Time

Explanation:

A covers the total distance in 400/16 = 25 seconds

Now, according to the question, B has given a start of 15 m

Then, distance covered by B = 400 - 15 = 385 m

Time taken by B to cover this distance = 25 + 10 = 35 seconds   (given)

So, speed of B = 385/35 = 11 m/s

Hence the speed of B is 11 m/s.

Question 90 :
In the following question, select the missing number from the given series. 345, 356, 368, 381, 395,?

Difficulty : Moderate   **Average Time : 58 Seconds**

Options :

1. 409

2. 408

3. 406

4. 410

Solution :

The correct answer is **Option 4** i.e. **410.**

Given series: 345, 356, 368, 381, 395,?

The series follows this pattern:

345 + 11 = 356

356 + 12 = 368

368 + 13 = 381

381 + 14 = 395

395 + 15 = 410

So, the next term in the series is **410.**

Question 91 :

If sin + cos = 5 sin(90 –), find the value of cot .

Difficulty : Moderate   Average Time : 39 Seconds

Options :

1. (5 – 1) /5

2. (5 + 1) /4

3. (5 + 1) /3

4. (5 - 1) /4

Solution :

The correct answer is **Option 2.** i.e. **(5 + 1) /4**

Given:

sin + cos = 5 sin(90 –)

Concept Used:

sin(90 -) = cos   .....(i)

sin/cos = tan   .....(ii)

Explanation:

Using equation (i) in the given question, we get

sin + cos = 5 cos   .....(iii)

Dividing equation (iii) by cos, we get

sin/cos + 1 = 5

 tan = 5 - 1

Since, 1/tan = cot

 cot = 1/(5 - 1)

On rationalising the above value,

 cot = (5 + 1)/4

Hence the value of cot is (5 + 1)/4.

Question 92 :
Study the given graph and answer the question that follows. the total production of company A in 2016 and 2019 together is what percentage of the total production of company C in 2017 and 2018 together?

Difficulty : Moderate   **Average Time : 74 Seconds**

Options :

1. 20%

2. 83.33%

3. 120%

4. 5%

Solution :
The correct answer is **Option 2.** i.e. **83.33%.**

Explanation:

Total production of company A in 2016 and 2019 = 40 + 60 = 100 lakh tonnes

Total production of company C in 2017 and 2018 = 60 + 60 = 120 lakh tonnes

Required percentage = $\left({100 \over 120} \times 100\right)$ = 83.33%

Hence the required percentage is 83.33%.

Question 93 :
The table given below shows the number of workers working in 5 different factories. What is the total number of workers working in all factories?

Difficulty : Moderate   Average Time : 45 Seconds

Options :
1. 180
2. 240
3. 250
4. 220

Solution :
The correct answer is **Option 4.** i.e. **220.**

Explanation:

The total number of workers working in the given factories = workers of (J + K + L + M + N)

25 + 30 + 70 + 80 + 15 = 220

Hence The total number of workers working in the given factories are 220.

Question 94 :
A, B, C and D share a property worth Rs.93,100. If A : B = 1 : 2, B : C = 3 : 4 and C : D = 5 : 6, then find the share of C.

Difficulty : Moderate   Average Time : 44 Seconds

Options :
1. Rs.34,000
2. Rs.28,000
3. Rs.25,000
4. Rs.31,000

Solution :
The correct answer is **Option 2.** i.e. **Rs.28,000.**

Given:

A + B + C + D = 93,100

A : B = 1 : 2, B : C = 3 : 4, C : D = 5 : 6

Explanation:

A : B = 1 : 2 = 3 : 6

B : C = 3 : 4 = 6 : 8

C : D = 5 : 6 = 8 : 9.6

Now, A : B : C : D = 3 : 6 : 8 : 9.6 = 30 : 60 : 80 : 96

So, share of C = $\left({80 \over (30+60+80+96)}\right) \times 93,100$ = 28,000

Hence the share of C is **Rs.28,000.**

Question 95 :
The proposed Rowlett Act of 1919 allowed detention of political prisoners without trial for_____.

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

Options :
1. two years
2. six months
3. two months
4. one year

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

The Rowlatt Act was passed in 1919 by the British government despite the united opposition of the Indian members.

1. It gave enormous powers to the government.
2. Now, the British government could suppress the political activities, and allow detention of political prisoners without trial for two years.
3. The Act was ill famed as 'Black Act' by the people and Indians revolt in protest against the Rowlatt Act.
4. Indian people reacted to it stoutly. Under the leadership of Mahatma Gandhi, they decided to launch a nationwide Satyagraha against the proposed Rowlatt Act (1919).

Rallies were organised in various cities.

6. Workers went on strike in railway workshops.
7. Shops closed down. To suppress the nationalists the British administration
8. Put the local leaders in jail.
9. Debarred Mahatma Gandhi from entering Delhi.
10. On 10 April, the police in Amritsar fired upon a peaceful procession.
11. On 13 April, the Jallianwalla Bagh incident took place.

Question 96 :
Select the set in which the numbers are related in the same way as are 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) (15, 9, 4) (7, 2, 3)

Difficulty : Moderate   **Average Time : 92 Seconds**

Options :

1. (21, 12, 6)

2. (19, 13, 4)

3. (24, 9, 11)

4. (18, 7, 7)

Solution :

The correct answer is **Option 2** i.e. **(19, 13, 4).**

The logic used here is:

(15, 9, 4)

9 + 4 = 13

13 + 2 = 15

(7, 2, 3)

3 + 2 = 5

5 + 2 = 7

Similarly,

(19, 13, 4)

13 + 4 = 17

17 + 2 = 19

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

Question 97 :
If cosecA - cotA = 1/4, then the value of tan A is:

Difficulty : Moderate

Average Time : 40 Seconds

Options :

1. 8/15

2. 8/17

3. 15/17

4. 17/15

Solution :
The correct answer is **Option 1.** i.e. 8/15**.**

Given:

cosecA - cotA = ¼   ....(i)

Concept Used:

$cosec^2A - cot^2A = 1$ ....(ii)

cotA = 1/tanA

Explanation:

From equation (i), we get

$cosec^2A - cot^2A = 1$

 (cosecA + cotA)(cosecA - cotA) = 1

 (cosecA + cotA) × ¼ = 1

 cosecA + cotA = 4   ....(iii)

Now, subtracting equation (1) and equation (iii), we get

2cotA = 15/4

cotA = 15/8

tanA = 8/15

Hence the required value of tanA is 8/15.

Question 98 :

Select the odd group of numbers. (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 : 73 Seconds**

Options :

1. (6 – 60 – 50)
2. (7 – 70 – 68)
3. (8 – 80 – 70)
4. (9 – 90 –80)

Solution :

The correct answer is **Option 2**. i.e. **(7 – 70 – 68).**

The logic used here is:

1st letter × 10 = 2nd letter

2nd letter - 10 = 3rd letter

Option 1: (6 – 60 – 50)

6 × 10 = 60

60 - 10 = 50

This follows the logic.

Option 2: (7 – 70 – 68)

7 × 10 = 70

70 - 10 = 60

This does not follow the logic.

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

Question 99 :

If A ÷ B means that A is the father of B, A × B means that A is the mother of B, A + B means that A is the brother of B. Then which of the following expression shows that Q is the daughter of P?

Difficulty : Moderate

Average Time : 62 Seconds

Options :

1. P ÷ Q × R

2. P ÷ Q + R

3. P × Q ÷ R

4. P + Q ÷ R

Solution :

The correct answer is **Option 1** i.e. **P ÷ Q × 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 × R

P
|
Q
|
R

From option 1, Q is the daughter of P.

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

Question 100 :

Select the option that is related to the third term in the same way as the second term is related to the first term and the sixth term is related to the fifth term. 21: 196:: 29:? :: 38: 315

Difficulty : Moderate

Average Time : 64 Seconds

Options :

1. 319
2. 252
3. 203
4. 841

Solution :

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

The logic used here is:

21: 196

$(21 + 7) \times 7$

$= 28 \times 7$

$= 196$

38: 315

$(38 + 7) \times 7$

$= 45 \times 7$

$= 315$

Similarly,

29 : ?

$(29 + 7) \times 7$

$= 36 \times 7$

$= 252$

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

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 Noon exam is as follows:

1. 100 questions were moderate.
2. The safe score is 140 marks.
3. 25 questions were asked from Logical Reasoning, 25 questions were asked from English Language, 25 questions were asked from Quantitative Aptitude and 25 questions were asked from General Awareness
4. 41 questions should have been skipped if you were short of time.

Ssc Cgl Tier I Previous Year Question Paper Topic Wise Weightage

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

English Language

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

Incorrectly Spelt - 3
13. Incorrectly Spelt - 3

Quantitative Aptitude

1. Arithmetic - 25

General Awareness

1. GK Misc - 25

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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