Delhi Police Constable Tier 1 Previous Year Question Paper Overview

Here, you can solve all the questions asked in Delhi Police Constable Tier 1 Previous Year Question Paper on 2020-12-02 in the Evening exam. The detailed solutions are also provided for every previous year question and some of these questions can be asked again in your Delhi Police Constable Tier 1 exam. There are 100 questions in the exam and 90 minutes are provided for the Delhi Police Constable Tier 1 exam. The Cutoff of the exam was 75 marks hence you should try to score at least 85 marks.

Delhi Police Constable Tier 1 Previous Year Question Paper : Questions and Solutions
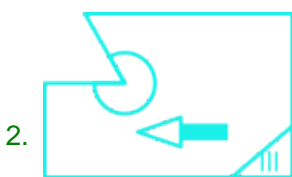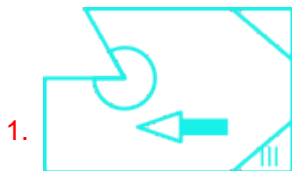
Question 1 :
Given below is a pattern out of which a section has been cut. Select the option when replaced with the question mark (?) will complete the pattern.
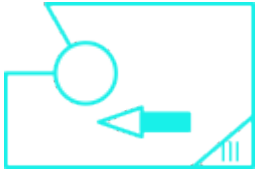
Difficulty : Moderate   **Average Time : 45 Seconds**

Options :

1.

2.

3.

4.

Solution :

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

The figure that will complete the pattern:

Question 2 :
Two different positions of the same dice are shown in Figures (I) and (I). Select the latter on the face opposite to the face showing 'G'

Difficulty : Moderate   **Average Time : 63 Seconds**

Options :

  1. I

  2. J

  3. G

  4. F

Solution :

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

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

Clockwise direction:

Dice 1: H G F

Dice 2: H I J

So, G is opposite to I.

Anticlockwise direction:

Dice 1: H F G

Dice 2: H J I

So, G is opposite to I.

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

Question 3 :

The amount obtained by investing a certain sum at p.a. for 4 years of simple interest is equal to the interest on the same sum at the same rate for 14 years. What is the value of r?

Difficulty : Moderate

Average Time : 59 Seconds

Options :

1. 10%

2. 8%

3. 9%

4. 12%

Solution :

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

According to the question,

P + (P × r × 4)/100 = (P × r × 14)/100

100P + 4Pr = 14Pr

100P = 10Pr

r = 10%

Question 4 :

A person traveled a distance of 60 km and then returned to the starting point. The time taken by him for the return journey was 1/2 hour more than the time taken for the outward journey and the speed during the return journey was 10 km/h less than that during the outward journey. His speed during the outward journey (in km/h) was:

Difficulty : Moderate

Average Time : 52 Seconds

Options :

   24

2. 40

3. 36

4. 30

Solution :

The correct answer is **option 2** i.e. **40**.

Let his speed during outward journey be = s

Then the time taken in outward journey = 60/s

Similarly in the next case the speed decreases by 10 km/h and time increases by 1/2 hour

Then his speed during inward journey = 60/(s - 10)

60/s + 1/2 = 60/(s - 10)

60/(s - 10) - 60/s = 1/2

600/s(s - 10) = 1/2

s(s - 10) = 1200

s^2 - 10s - 1200 = 0

(s - 40)(s + 30) = 0

s = 40 km/hr

Question 5 :
The Value of (4/21) ÷ (3/7) of (1/2) - (1/2) × (2/3) + [1.96 ÷ 0.98 × 7(1/3)] ÷ 2 is:

Difficulty : Moderate

Average Time : 54 Seconds

Options :

1. 32/9

2. 71/9

3. 7/9

4. 25/18

Solution :

The correct answer is **option 2** i.e. **71/9.**

By using BODMAS rule:

(4/21) ÷ (3/7) of (1/2) - (1/2) × (2/3) + [(1.96 ÷ 0.98 × 7(1/3)] ÷ 2

= (4/21) ÷ (3/14) - 1/3 + [2 × 22/3] ÷ 2

= (4/21) × (14/3) - 1/3 + 44/3 × 1/2

= 8/9 - 1/3 + 22/3

= (8 - 3 + 66)/9

= 71/9

Question 6 :
The diameter of the base of a solid right cone is 66 cm, and its curved surface area is 2145 cm2 , The volume of the cone, in cm3, is:

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

Options :
1. 17787
2. 15246
3. 13552
4. 20328

Solution :
The correct answer is **option 4** i.e. **20328 .**

Radius of the cone = 66/2 = 33

Curved surface area of the cone = 2145

 × 33 × l = 2145

l = 65

$h^2 = 65^2 - 33^2$

h = 56

Volume of the cone = 1/3 × r^2h

= 1/3 × × 33^2 × 56

= 20328

Question 7 :

The area of a triangular park, Whose sides are 72 m, 210 m, and 222 m, is equal to area to the area of a rectangular garden, Whose sides are in the ratio of 21 : 10 What is the perimeter (in m) of the rectangular garden?

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

Options :

1. 372
2. 434
3. 310
4. 248

Solution :

The correct answer is **option 1** i.e. **372.**

The sides 72, 210, and 222 form a right angle triangle.

72^2 + 210^2 = 222^2

49284 = 49284

Area of the triangle = 1/2 × 72 × 210 = 7560

Let's assume the sides of the rectangle = 21x and 10x

According to the question,

21x × 10x = 7560

x^2 = 7560/210

x = 6

Perimeter of the garden = 2 × (21x + 10x) = 62x

= 62 × 6 = 372

Question 8 :

A sum of Rs 7,560 is divided between A, B, and C such that if their share is diminished by Rs 400, Rs 300, and, Rs260,

respectively, then their ahare are in the ratio 4 : 2 : 5. What is the original share of B?

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

Options :

1. Rs. 1,500
2. Rs. 1,200
3. Rs. 2,400
4. Rs.2,700

Solution :

The correct answer is **option 1** i.e. **Rs.1,500.**

According to the question,

If the share is 400, 300, and 260 diminished from the original share then the ratio = 4 : 2 : 5

According to the question,

7560 - (400 + 300 + 260) = 6600

Then the orginal share of B = (6600/11) × 2 + 300 = 1500

Question 9 :
The marked price of an article is Rs.2,400 It is sold for Rs.1,542.24 after allowing three successive discounts of 15%, 10%, and X% What is the value of X?

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

Options :

1. 16
2. 16.5
3. 18
4. 15.6

Solution :

The correct answer is **option 1** i.e. **16.**

2,400 × (100 - 15)/100 × (100 - 10)/100 × (100 - x)/100 = 1542.24

2400 × 85/100 × 90/100 × (100 - x)/100 = 1542.24

100 - x = 1542.24/18.36

x = 100 - 84 = 16

Question 10 :

What least number should be subtracted from 2980 so that the resulting number when divided by 9, 10 and 15 the remainder in each case is 3?

Difficulty : Moderate   **Average Time : 40 Seconds**

Options :

1. 10
2. 13
3. 12
4. 9

Solution :

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

LCM of 9, 10, 15 = 90

The required number = [(2980 - x) + 3]/90

Put x = 10

2973/90 = 3 remainder

Question 11 :

Two positive integers differ by 1627 When the larger integer is divided by the smaller, the quotient is 7 and the remainder is 157, The sum of the digits of the smaller integer is:

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

Options :

1. 17
2. 13
3. 11

12

Solution :

The correct answer is **option 3** i.e. **11.**

According to the question,

x - y = 1627

x = y + 1627

and

x = 7y + 157

Put the value of x in the above equation

y + 1627 = 7y + 157

y = 1470/6 = 245

x = 245 + 1627 = 1870

Sum of the integers of the smaller number = 2 + 4 + 5 = 11

Question 12 :

With which musical instrument was the noted musician Pandit Kishan Maharaj associated?

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

Options :

1. Rudra Veena

2. Mridangam

3. Santoor

4. Tabla

Solution :

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

1. Pandit Kishan Maharaj, an Indian **tabla** musician who belonged to the Benares Gharana of Hindustani classical music, lived from 3 September 1923 until 4 May 2008.
2. Pt. Kishan Maharaj can be considered to be the "doyen" of the table in the present era.
3. He frequently traveled with Pt. Ravi Shankar, whom he knew well. As well as these historical figures, he performed

onstage alongside Girija Devi, Bade Ghulam Ali Khan, Pandit Omkarnath Thakur, etc.
4. He frequently wore the large red "Tika," which is the Benares Gharana's signature hairstyle, in the center of his forehead.

Question 13 :
The Prime Minister and the other Ministers of the Indian Union are appointed by the President under:

Difficulty : Moderate   Average Time : 61 Seconds

Options :
1. Article 79 of the Constitution of India
2. Article 75 of the Constitution of India
3. Article 85 of the Constitution of India
4. Article 70 of the Constitution of India

Solution :
The correct answer is **option 2** i.e. **Article 75 of the Constitution of India.**

1. According to Article 75, the President, on the recommendation of the Prime Minister, appoints a minister who serves at the discretion of the President.
2. The President appoints the Prime Minister and, on the Prime Minister's recommendation, other ministers. The Lok Sabha is the source of the Council's collective accountability.

Question 14 :
The Governor of a State may if he is of the opinion that the Anglo-Indian community needs representation in the Legislative Assembly of the State and is not adequately represented therein, nominate _____ of that community to the Assembly.

Difficulty : Moderate   Average Time : 59 Seconds

Options :
1. one member
2. two members
3. three members
4. four members

Solution :

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

1. According to Article 170, the Governor of a State may propose one member of the Anglo-Indian community for election to the Legislative Assembly if he believes the group deserves representation in the Assembly and is not sufficiently represented there.
2. The Chief Minister, the Council of Ministers, the Advocate-General of State, and the Governor make up the state executive. The governor serves as the state government's president. The laws relating to the nation's state governments are covered within Articles 153–167 of the Indian Constitution.

Question 15 :

Who among the following is the only Indian to win an Individual Gold in the Olympics?

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

Options :

1. Leander Paes
2. Saina Nehwal
3. Sushil Kumar
4. Abhinav Bindra

Solution :

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

When he triumphed in the 10-metre Air rifle competition at the 2008 Summer Olympics in Beijing, **Abhinav Bindra** became the first Indian to take home an individual gold medal.

1. Additionally, Bindra has earned three medals at the Asian Games and seven medals at the Commonwealth Games.
2. He has won more than 150 medals over the course of his 22-year career, received the Padma Bhushan from the Indian government, and is one of the key figures in the country's sports strategy.
3. In the 10-meter air rifle finals at the 2016 Summer Olympics in Rio de Janeiro, Bindra came in fourth place. Abhinav received the esteemed Blue Cross in 2018, the ISSF's highest honor, for his achievements. Additionally, Bindra is presently a part of the IOC Athletes' Commission.

Question 16 :

As per Census 2011, the literacy rate of India is:

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

Options :

74.04%

2. 69.04%

3. 76.04%

4. 67.04%

Solution :

The correct answer is **option 1** i.e. **74.04%**

1. India's literacy rate is 74.04%, according to the 2011 Census. The literacy rate is 82.14% for men and 65.46% for women.
2. Kerala had the highest literary rate (94%) among the Indian states in 2011. Kerala was followed by Chandigarh, Himachal Pradesh, and Delhi's capital region, all of which had literacy rates that were above average.

Question 17 :

The Finance Commission is constituted by the President:

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

Options :

1. at the expiration of every sixth year

2. at the expiration of every tenth year

3. at the expiration of every seventh year

4. at the expiration of every fifth year

Solution :

The correct answer is **option 4** i.e. **at the expiration of every fifth year**

1. The President of India regularly appoints the Finance Commissions (Vitta yoga) in accordance with Article 280 of the Indian Constitution to establish the financial ties between the national government of India and the various state governments.
2. A Finance Commission with a Chairman and four additional members is chosen by the President once every five years. Regarding financial issues, the Commission advises the President.

Question 18 :

Name the scientific principle behind the working of optical fibres.

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

Options :

1. Total external refraction of light
2. Total internal refraction of light
3. Total internal reflection of light
4. Total external reflection of light

Solution :

The correct answer is **option 3** i.e. **Total internal reflection of light**

1. The concept of total internal reflection underlies the operation of optical fibers.
2. When an incident light ray hits the interior surface of an optical fiber cable with an incidence angle greater than the critical angle, the incident light ray reflects in the same medium, and the occurrence is repeated. From one end of the line to the other, the light signal moves in this manner.
3. To confine the light rays inside the fiber, optical fibers utilize the total internal reflection feature of light waves.

Question 19 :

Which of the following features distinguishes Buddhism from Jainism?

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

Options :

1. Non-injury to living beings
2. Extreme form of conduct and self-mortification
3. Belief in good action
4. Rejection of the authority of the Vedas

Solution :

The correct answer is **option 2** i.e. **Extreme form of conduct and self-mortification.**

Buddhism and Jainism are distinguished by their rejection of both **Extreme forms of conduct and self-mortification.** The origins of Buddhism and Jainism can be traced to India in the sixth century BCE.

1. Buddhism and Jainism are both very old religions that originated in ancient India.

While Jainism is based on the teachings of Mahavira, Buddhism is based on those of Gautama Buddha.

Question 20 :

Who among the following has been appointed as Chairman of the Telecom Regulatory Authority of India (TRAI) in September 2020?

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

Options :

1. Ajay Kumar Bhalla

2. PD Vaghela

3. Snehlata Shrivastava

4. KN Vyas

Solution :

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

1. The Telecom Regulatory Authority of India (TRAI) appointed P.D. Vaghela as chairman on October 1st, 2020. Dr. Vaghela formerly served as Secretary of the Ministry of Chemicals & Fertilisers' Department of Pharmaceuticals before joining TRAI.
2. As a result of the telecommunications sector being opened to private operators, the Telecom Regulatory Authority of India (TRAI) was created. The TRAI Act of 1997 allowed for its establishment.

Question 21 :

The 2018 edition of the Commonwealth Games was hosted by _____.

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

Options :

1. UK

2. Pakistan

3. Australia

4. India

Solution :

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

Australia's Gold Coast, in Queensland, hosted the 2018 Commonwealth Games. There were 275 events in 18 games, and it took place from April 4 to April 15, 2018. The Commonwealth of Nations included 70 participants in this edition.

Question 22 :
In which state is the Sarhul festival celebrated?

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

Options :
1. Chhattisgarh
2. Gujarat
3. Jharkhand
4. Assam

Solution :
The correct answer is **option 3** i.e. **Jharkhand**

1. In accordance with the local Sarna religion, the tribal groups of the state of Jharkhand celebrate the New Year's event known as Sarhul.
2. Three days following the new moon's emergence, in the Hindu month of Chaitra, it is observed.
3. In addition, it marks the start of spring. There is a connection between the word "Sarhul" and tree worship. It is a celebration where nature is honored. It falls on April 4th, a Monday, in the year 2022.

Question 23 :
On which river is the Krishna Raja Sagara Dam built?

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

Options :
1. Tungabhadra
2. Krishna
3. Kali nadi
4. Cauvery

Solution :

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

In 1924, the dam over the Kaveri River was constructed. For Mysore's districts, it serves as their primary water source. Mysore, Mandya, and nearly the entirety of Bengaluru City, the capital of Karnataka, all get their drinking water from this stream, which is also utilized for irrigation in those cities.

Question 24 :
Who among the following was appointed as the Chairman of the International Financial Services Centres Authority (IFSCA) on July 6, 2020?

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

Options :
1. Nazir Laway
2. Injeti Srinivas
3. KS Reddy
4. Anil Kumar Chawla

Solution :
The correct answer is **option 2** i.e. **Injeti Srinivas**

The Gujarat International Finance Tech (GIFT) City, a financial special economic zone situated in Gandhinagar, has appointed senior bureaucrat Injeti Srinivas as its inaugural chairman.

1. The IFSCA's main goals are to forge close ties across the globe, concentrate on the needs of the Indian economy, and act as a regional and global financial platform.
2. In accordance with the International Financial Services Centres Authority Act of 2019, the International Financial Services Centres Authority (IFSCA) was created on April 27, 2020. Its main office is in Gujarat's Gandhinagar or GIFT City.
3. The International Financial Services Centre (IFSC) in India has a centralised authority known as the IFSCA that oversees the development and supervision of financial services, financial institutions, and financial products.

Question 25 :
What is the maximum amount of a loan granted by a scheduled commercial bank that is covered under the Credit Guarantee Fund Scheme for Micro and Small Enterprises?

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

Options :

â‚¹50 lakh

2. â‚¹100 lakh

3. â‚¹200 lakh

4. â‚¹50 lakh

Solution :

The correct answer is **option 3** i.e. **â‚¹200 lakh**

1. The program allows MSMEs, both new and old, to access finance. Up to Rs 50 lakh can be guaranteed for the guarantee program, which covers up to 75% of the loans permitted under the Credit Guarantee Scheme. Blocks of five years are used as the duration of the guarantee cover.
2. The Government of India (GoI) established the Loans Guarantee Fund Scheme for Micro and Small Enterprises (CGS) to provide collateral-free loans to this industry. Both new and existing businesses are eligible for coverage under the program.

Question 26 :

Which Indian king issued a silver coin and termed it as Rupiya in the 16th century?

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

Options :

1. Hemu

2. Krishnadevaraya

3. Sher Shah Suri

4. Akbar

Solution :

The correct answer is **option 3** i.e. **Sher Shah Suri.**

The coin known as the Rupiya was made of silver and weighed 178 grains during Sher Shah Suri's five-year rule between 1540 and 1545. He also established a new civil and military government.

Question 27 :

The Governor of a State holds office during the pleasure of the:

Difficulty : Moderate

Average Time : 41 Seconds

Options :

1. Prime Minister of India

2. President of India

3. Vice President of India

4. Chief Minister of the concerned State

Solution :
The correct answer is **option 2** i.e. **President of India**

Term of office for Governor:

(1) The Governor shall serve at the discretion of the President.

(2) The Governor may retire from office by sending a letter to the President in writing, addressed under his hand.

(3) A Governor's tenure in office, subject to the aforementioned provisions of this Article, shall be for five years beginning on the day he or she assumes office. With the caveat that a governor must hold onto his position until his replacement assumes it, even after his tenure has ended.

Question 28 :
What is the maximum age for joining the Atal Pension Yojana?

Difficulty : Moderate

Average Time : 59 Seconds

Options :

1. 45 years

2. 50 years

3. 35 years

4. 40 years

Solution :
The correct answer is **Option 4** i.e. **40 years**

Indian government-sponsored pension program Atal Pension Yojana, formerly Swavalamban Yojana, largely serves the unorganized sector. Finance Minister Arun Jaitley made reference to it in his address for the 2015 budget. On May 9, 2015, in Kolkata, the Prime Minister of India, Narendra Modi, officially unveiled it.

Atal Pension Yojana participants must be 18 or younger and not older than 40. After turning 60, one can begin receiving a pension. Twenty years will be the bare minimum of contribution.

2. As an individual, after you reach the age of 60, you will be entitled to a guaranteed pension of Rs.1,000, Rs 2,000, Rs 3,000, Rs 4,000, or Rs 5,000. If a subscriber passes away, their spouse or another nominee will get the pension payment.

Question 29 :

Who was the founder of the Vakataka Dynasty in ancient India?

Difficulty : Moderate   **Average Time : 63 Seconds**

Options :

1. Sarvasena

2. Vindhyasakti

3. Pravarasena I

4. Rudrasena I

Solution :

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

1. The name of the dynasty's founder, Vindhyashakti (250–270), is a diminutive of the goddess Vindhyavasini.
2. Vindhyashakti, the creator of the Vakataka dynasty, was succeeded by Pravarasena (r. c. 275–335 CE). He was the first and only Vakataka emperor to be given the title Samr, which means emperor or universal emperor.

Question 30 :

_____ is the author of the book 'The Art of Living — A Guide to Contentment, Joy and Fulfillment'.

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

Options :

1. Dalai Lama

2. Shashi Tharur

3. Devendra Sinha

4. Ramesh Singh

Solution :

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

The Dalai Lama's stunning book '**The Art of Living — A Guide to Contentment, Joy and Fulfillment'** combines His Holiness's profound, approachable lessons on leading a joyful life with remarkable photographs that provide light on the rich cultural history of Tibetan Buddhism.

Question 31 :

Which of the following is a thermosetting plastic?

Difficulty : Moderate

Average Time : 45 Seconds

Options :

1. Bioplastic

2. Bagasse

3. Mycotecture

4. Bakelite

Solution :

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

Thermoplastics can be heated and shaped repeatedly, whereas thermosetting plastics can only be heated and shaped once.

1. Thermosetting plastics include bakelite.
2. Heat and electricity don't conduct well through bakelite. It is utilized to create electrical switches, handles for various utensil types, etc. These thermosetting plastic varieties, once molded, cannot be heated to make them pliable.

Question 32 :

Ponung folk dance is related to which state?

Difficulty : Moderate

Average Time : 47 Seconds

Options :

1. Bihar

2. Tripura

Assam

4. Arunachal Pradesh

Solution :

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

The art of ponung dance is widely practiced in Arunachal Pradesh.

1. This is the community of Adis' traditional folk dance.
2. The dancers are female, and they frequently clasp hands and form groups while dancing.
3. There are captivating songs playing as you dance vivaciously.
4. During the event that is held prior to harvest, it is shown.
5. This dancing event's goal is to promote the well-being of the local community and a prosperous harvest.

Question 33 :

Which of the following pass(es) through the Indian mainland? 1. The Tropic of Capricorn 2. The Tropic of Cancer 3. The Equator

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

Options :

1. Both 2 and 3

2. Only 1

3. Only 2

4. Both 1 and 2

Solution :

The correct answer is **option 3** i.e. **Only 2.**

India is approximately split in two by the Tropic of Cancer; the parts of the country south of the Tropic are in the tropical area, and the parts of the country north of the Tropic are in the subtropical area.

1. The continental India stretches between latitudes 8°4'N and 37°6'N from the south to the north.
2. India spans the 68°7'E to 97°25'E longitudes from one stretches west to east.
3. India's states where the tropic of cancer is located-

Eight Indian states are located along the Tropic of Cancer:

1. Gujarat (Jasdan)

Rajasthan (Kalinjarh)
3. Madhya Pradesh (Shajapur)
4. Chhattisgarh (Sonhat)
5. Jharkhand (Lohardaga)
6. West Bengal (Krishnanagar)
7. Tripura (Udaipur)
8. Mizoram (Champhai)

Question 34 :

What is the highest rate of Goods and Services Tax (GST) in India?

Difficulty : Moderate   Average Time : 70 Seconds

Options :

1. 28%

2. 22%

3. 12%

4. 18%

Solution :

The correct answer is **option 1** i.e. **28%.**

India has a 28% top GST rate. Commonplace commodities covered by this levy include things like cars, cigarettes, aerated beverages, and air travel. Finally, the 28% GST rate cap in India applies to some luxury items as well as commonplace goods.

1. India has four GST rate slabs: 5% GST, 12% GST, 18% GST, and 28% GST.
2. These rates apply to a variety of commodities and services. Since the Goods and Services Tax's introduction, the GST Council has altered the GST rates for certain products several times.

Question 35 :

Which of the following statements is true about gases?

Difficulty : Moderate   Average Time : 52 Seconds

Options :

1. Gases have definite volume but no definite shape

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Gases have definite shape but no definite volume

3. Gases neither have definite volume nor definite shape

4. Gases have definite volume and definite shape

Solution :

The correct answer is **option 3** i.e. **Gases neither have definite volume nor definite shape**

Both the volume and shape of gases are indeterminate. Because gas molecules are extremely spaced out from those of solid or liquid molecules, gases lack both defined shape and volume.

Gases are very compressible.

1. They're liquids.
2. not a rigid shape.
3. A less interparticle force of attraction exists in gases. In light of this,

1. They lack a distinct shape.
2. There is no way to determine their volume.

When pressure is applied to them, the particles can move closer because of the enormous interparticle gap that exists within them. They are hence very compressible.

Question 36 :

The Indian Administrative Service and the Indian Police Service are deemed to be services created by the Parliament:

Difficulty : Moderate   **Average Time : 73 Seconds**

Options :

1. under Article 312

2. under Article 301

3. under Article 292

4. under Article 307

Solution :

The correct answer is **option 1** i.e. **under Article 312.**

According to Article 312, the Indian Administrative Service and the Indian Police Service are regarded as services

established by the Parliament.

1. The career bureaucrats that make up the permanent executive arm of the Republic of India are referred to as the "Civil Services."
2. A two-thirds majority vote is required for the Rajya Sabha (the upper house of Parliament) to establish new All India Services branches under Article 312 of the constitution.

Question 37 :

Who among the following was appointed as the Vice-President of the Asian Development Bank (ADB) for private sector operations and public-private partnerships on July 15, 2020?

Difficulty : Moderate   Average Time : 57 Seconds

Options :

1. Ashok Lavasa

2. Sahil Seth

3. Rajiv Kumar

4. R Narayanaswamy

Solution :

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

- Mr. Ashok Lavasa is the Vice-President (Market Solutions) of the Asian Development Bank (ADB).
- Ashok Lavasa is responsible for ADB's Private Sector Operations as well as Public-Private Partnerships.
- The Asian Development Bank (ADB) is a multilateral development bank, which seeks to help its developing member countries to reduce poverty and improve their people's quality of life through inclusive economic growth, environmentally sustainable growth and regional integration**.**

Question 38 :

During whose reign did the Moroccan traveller Ibn Battuta visit India in the 14th century?

Difficulty : Moderate   Average Time : 53 Seconds

Options :

1. Mohammad Bin Tughlaq

2. Alauddin Khalji

3. Jalaluddin Khalji

Feroz Shah Tughlaq

Solution :

The correct answer is **option 1** i.e. **Mohammad Bin Tughlaq.**

- Abu Abdullah Muhammad Ibn Battuta was a Moroccan Muslim scholar and traveler.
- Muhammad bin Tughluq, also known as Jauna Khan as Crown Prince was the eighteenth Sultan of Delhi who reigned from February 1325 until his death in 1351.
- He was the eldest son of Ghiyath al-Din Tughluq.

Question 39 :

What is the minimum amount of bank loan granted under the Stand-Up India scheme of the Government of India?

Difficulty : Moderate

Average Time : 50 Seconds

Options :

1. ₹20 lakh

2. ₹5 lakh

3. ₹10 lakh

4. ₹2 lakh

Solution :

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

- The minimum amount of bank loan granted under the Stand-Up India scheme of the Government of India is 10 lakhs.
- The objective is to provide bank loans between Rs. 10 lakh and Rs. 100 lakh to atleast one SC/ST borrower and atleast one Woman borrower per bank branch of all scheduled commercial banks for setting up a greenfield enterprise.

Question 40 :

In which year was the Battle of Talikota fought between the Vijayanagara Empire and the Deccan sultanates?

Difficulty : Moderate

Average Time : 49 Seconds

Options :

1. 1561 AD

2. 1556 AD

1565 AD

4. 1564 AD

Solution :

The correct answer is **option 3** i.e. **1565 AD.**

- The Battle of Talikota took place among the villages of Rakshasa–Tangadi.
- It was fought between the Vijayanagara Empire and an alliance of the Deccan sultanates on 26th Jan'1565 AD.
- The battle led to end of Viajaynagar kingdom in South Indian politics.

Question 41 :

Who among the following formally stepped down as International Cricket Council (ICC) Chairman on July 1, 2020, after leading the governing body of the international cricket for four years?

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

Options :

1. Brijesh Patel

2. Niranjan Shah

3. M Srinivasan

4. N Srinivasan

Solution :

The correct naswer is **option 4** i.e. **N Srinivasan.**

- Srinivasan is the former chairman of the International Cricket Council (ICC) and the former president of the Board of Control for Cricket in India (BCCI).
- He is the owner of CSK and the vice-chairman and managing director of India Cements has an estimated net worth of Rs 720 crore.

Question 42 :

Who among the following has been appointed as the Ambassador and Permanent Representative of India to the UN and other International Organizations in Geneva on July 1, 2020?

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

Options :

1. Indra Mani Pandey

Venu Rajamony

3. Uma Shankar Bajpai

4. Deepak Bhojwani

Solution :

The correct answer is **option 1** i.e. **Indra Mani Pandey.**

- Indramani Pandey takes over as the 25th Permanent Representative of India in Geneva to the United Nations Office and Other International Organizations.
- He joined Indian Foreign Service in 1990.
- He also served as the Ministry of External Affairs as Director General in charge of the Disarmament and International Security Affairs Division from August 2018 to August 2020.

Question 43 :

With which of the following musical instruments is the musician Sikkil Mala Chandrasekhar associated?

Difficulty : Moderate   Average Time : 50 Seconds

Options :

1. Swarmandal

2. Flute

3. Tanpura

4. Tabla

Solution :

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

- Sikkil Mala Chandrasekhar is a South Indian musician associated with flute.
- She started learning flute at the age of five from her gurus Padmasree Sangeetha Kalanidhi Smt Sikkil Neela (Mother) and Smt. Sikkil Kunjumani (Aunt).
- In 2003 October, she received the title of " VENUGAANA SIRONMANI" at DUBAI by Dubai Thamizh family, in 2000 she received the Kalki Centenary Award, instituted by the Kalki Memorial Trust, from Smt Prabha Sreedevan, Judge, Madras High Court etc.

Question 44 :

Who was the first Governor-General under the British rule in India?

Difficulty : Moderate   Average Time : 53 Seconds

Options :

1. Warren Hastings

2. John Adam

3. George Barlow

4. Charles Cornwallis

Solution :

The correct answeer is **option 1** i.e. **Warren Hastings.**

- Warren Hastings was the first Governor of the Presidency of Fort William (Bengal) in 1772.
- He became the first Governor-General of Bengal in 1774 and served till 1785.
- He transformed the East India Company from a trading organisation into a great military and naval power.
- He established full-scale British civil administration in India.

Question 45 :

What is the SI Unit of temperature?

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

Options :

1. Degree Fahrenheit

2. Candela

3. Kelvin

4. Degree Celsius

Solution :

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

- SI Unit of temperature is Kelvin.
- Temperature is the measurement of degree of hotness or coldness on a definite scale.

Question 46 :

In which state is the Ananthagiri Hills located?

Difficulty : Moderate   **Average Time : 37 Seconds**

Options :

1. Kerala

Andhra Pradesh

3. Telangana

4. Karnataka

Solution :

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

- Ananthagiri Hills is located 10 km from Vikarabad, Ranga Reddy district, Telangana, India.
- Ananthagiri hills are the place of origin of the Musi river.
- The river is the source of water for Himayat Sagar lake near Hyderabad providing water to the city.

Question 47 :

Which of the following football clubs won the La Liga Football Title for the 34th time on July 16, 2020, in Madrid?

Difficulty : Moderate   Average Time : 46 Seconds

Options :

1. Levante

2. Barcelona

3. Real Madrid

4. Villarreal

Solution :

The correct answer is **option 3** i.e. **Real Madrid.**

- Real Madrid won the La Liga Football Title for the 34th time on July 16, 2020.
- Benzema's double included a second-half penalty at the empty Alfredo di Stefano Stadium as Madrid moved seven points clear to end Barcelona's two-year hold on the trophy.
- Karim Benzema scored twice in a 2-1 victory over Villarreal which clinched the title with one game to spare.

Question 48 :

In which state is the archaeological site of Surkotada situated?

Difficulty : Moderate   Average Time : 50 Seconds

Options :

1. Karnataka

2. Haryana

Rajasthan

4. Gujarat

Solution :

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

- Surkotada is a 3.5 acre archaeological site situated in northeast of Bhuj, in Gujarat, approximately 50 kms from Rapar.
- It's an integral part of the Indus Valley Civilization, one of the world's oldest civic societies.

Question 49 :

Which organisation is operating the Pradhan Mantri Vaya Vandana Yojana of the Government of India?

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

Options :

1. Unit Trust of India

2. LIC of India

3. Post Office

4. State Bank of India

Solution :

The correct answer is **option 2** i.e. **LIC of India.**

- Pradhan Mantri Vaya Vandana Yojana (PMVVY) is a Pension Scheme announced by the Government of India exclusively for the senior citizens aged 60 years and above operated by LIC.
- The Pradhan Mantri Vaya Vandana Yojana has been launched on 4th May 2017.The scheme shall be available for one year from date of launch.

Question 50 :

Which of the following commodities is NOT included in the Essential Commodities Act, 1955?

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

Options :

1. Wooden furniture

2. Cement

3. Tyres of scooters

Soap

Solution :

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

- The Essential Commodities Act came into force on 1st April, 1955.
- It includes providing, in the interest of the general public, for the control of the production, supply and distribution of, and trade and commerce, in certain commodities.

Question 51 :

Former Union Food Processing Minister Harsimrat Kaur Badal virtually inaugurated the Zoram Mega Food Park in _____ on July 20, 2020, to boost the food processing industry in the North-East.

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

Options :

1. Meghalaya

2. Mizoram

3. Manipur

4. Tripura

Solution :

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

- Food Processing Minister Harsimrat Kaur Badal today virtually inaugurated the first Mega Food Park in Mizoram.
- The park had an investment of about Rs. 250 crore in 30 food processing units and would eventually lead to a turnover of about Rs. 500 crore annually.
- The Mega Food Park is equipped with a dry warehouse of 3000 metric tonnes capacity and cold storage of 1000 metric tonnes.

Question 52 :

In which state had the Central Government amalgamated three Regional Rural Banks (RRBs) into one bank with effect from 1 January 2019?

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

Options :

1. Haryana

Rajasthan

3. Uttar Pradesh

4. Punjab

Solution :

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

- The Central Government amalgamated three Regional Rural Banks (RRBs) into one bank with effect from 1 January 2019 in Punjab.
- Punjab Gramin Bank, Malwa Gramin Bank and Sutlej Gramin Bank amalagmated into a single RRB.

Question 53 :

While performing the Suwa folk dance, women act like which of the following birds?

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

Options :

1. Parrot

2. Peacock

3. Hornbill

4. Sparrow

Solution :

The correct answert is **option 1** i.e. **Parrot.**

- Suwa Tribal Dance in Chhattisgarh, India is also known as Parrot Dance.
- It is one of the main dance forms of tribal women in Chhattisgarh, performed by tribals to please the goddess of wealth.
- The dance is characterized by fast-paced movements and rhythmic footwork.

Question 54 :

Which of the following activities belongs to the secondary sector of an economy?

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

Options :

1. Tea plantation

2. Legal consulting

Farm equipment manufacturing

4. Banking

Solution :

The correct answer is **option 3** i.e. **Farm equipment manufacturing.**

- The secondary sector covers all those activities consisting in varying degrees of processing of raw materials (manufacturing, construction industries).
- The secondary sector transforms natural resources, raw materials collected from nature, into artificial resources, human-created objects for use by people.

Question 55 :

Name the king who built the famous Lingaraj Temple in Bhubaneswar?

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

Options :

1. Jajati Keshari

2. Dharmaratha

3. Janmejaya I

4. Bhimaratha

Solution :

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

- The largest and the most sacred shrine of the Temple City Bhubaneswar is the Lingaraj Temple.
- The temple is devoted to Lord Harihara, which essentially means it is dedicated to Hari (Lord Vishnu) and Hara (Lord Shiva).
- The temple was built in the 11th century by Jajati Keshari, who was a Somvanshi king.

Question 56 :

Which of the following scientists developed the Theory of Relativity?

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

Options :

1. Niels Bohr

2. Ernest Rutherford

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4. Albert Einstein

Solution :

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

- The Theory of Relativity, proposed by the Jewish physicist Albert Einstein (1879-1955).
- The Theory of Relativity deals with the question of whether rest and motion that are relative or absolute, and with the consequences of Einstein's conjecture that they are relative.

Question 57 :

Which of the following Articles of the Constitution of India has provisions for a joint sitting of both Houses of Parliament?

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

Options :

1. Article 93

2. Article 126

3. Article 108

4. Article 122

Solution :

The correct answer is **option 3** i.e. **Article 108.**

- Article 108 of the Indian Constitution of India has provisions for Joint sitting of both the Houses of Parliament.
- Intention of President is required under Article 108 of the Constitution of India to summon a joint sitting.

-
  If the Bill has been passed from one House and has been transmitted to the other House. Then, the following sub-clauses of clause 1 are the cases in which the Join Sessions of both Houses will be held.

Question 58 :

In which of the following states is the Kolleru Lake located?

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

Options :

Kerala

2. Karnataka

3. Andhra Pradesh

4. Tamil Nadu

Solution :

The correct answer is **option 3** i.e. **Andhra Pradesh.**

- Kolleru Lake is the largest freshwater lake and is located in Andhra Pradesh.
- It is located between Krishna and Godavari delta.
- The lake was notified as a wildlife sanctuary in November 1999 under India's Wild Life (Protection) Act, 1972, and designated a wetland of international importance in November 2002 under the international Ramsar Convention**.**

Question 59 :

Who among the following founded the Hyderabad city?

Difficulty : Moderate   Average Time : 47 Seconds

Options :

1. Subhan Quli Qutb Shah

2. Ibrahim Quli Qutb Shah

3. Muhammad Quli Qutb Shah

4. Jamsheed Quli Qutb Shah

Solution :

The correct answer is **option 3** i.e. **Muhammad Quli Qutb Shah.**

- Muhammad Quli Quá¹b Shah, the fifth king of the Quá¹b Shahi dynasty.
- He founded the first building in Hyderabad, his new capital.
- Sultan Muhammed Quli Qutb Shah was a scholar in Persian and Arabic. He also wrote poetry in Telugu language, Persian language and Urdu languag

Question 60 :

Which of the following instruments is used to measure electromotive force?

Difficulty : Moderate   Average Time : 50 Seconds

Options :

Polarimeter

2. Potometer

3. Potentiometer

4. Platometer

Solution :

The corect answer is **option 3** i.e. **Potentiometer.**

- A potentiometer is a three-terminal electrical device used to measure and control an electric current.
- A potentiometer is one of the most commonly used variable resistors in electronic circuits.
- It is a three-terminal resistor with a sliding or rotating contact that forms an adjustable voltage divider.

Question 61 :

In which state is the Kanha National Park situated?

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

Options :

1. Madhya Pradesh

2. Haryana

3. Karnataka

4. Manipur

Solution :

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

- Kanha Tiger Reserve, also called Kanha National Park,is the largest national park of the state of Madhya Pradesh.
- It is one of the tiger reserves of India.
- It is the only location in India where the most abundant variety of Barasingha can be found and so called as the "Jewel of Kanha"

Question 62 :

Select the option in which the given figure (X) is embedded (rotation is allowed). Figure (X)

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

Options :

1.

Page No: 36

2.

3.

4.
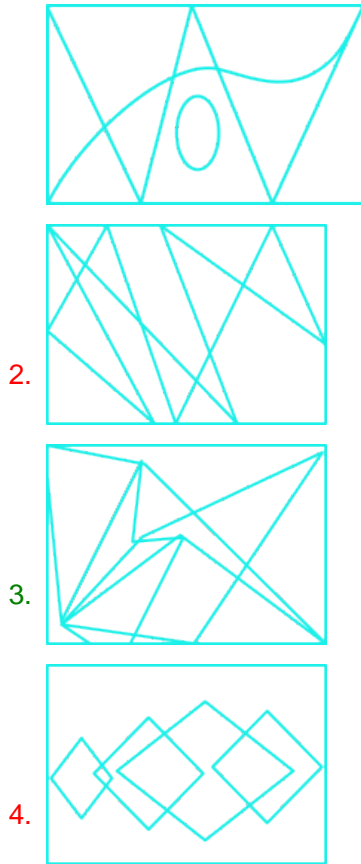
Solution :

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

The given figure is embedded in option 3, as shown below:
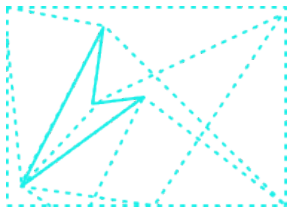
Question 63 :

Which two signs should be interchanged to make the given equation correct? $77 + 12 - 4 \div 10 \times 1 = 70$

Difficulty : Moderate

Average Time : 61 Seconds

Options :

1. - and ×

2. - and ÷

3. ÷ and ×

4. + and -

Solution :

The correct answer is **option 2** i.e. **- and ÷.**

Given equation: 77 + 12 - 4 ÷ 10 × 1 = 70

Option 1: - and ×

After interchanging the expression becomes:

= 77 + 12 × 4 ÷ 10 - 1 = 70

= 80.8 is not equal to 70.

Option 2: - and ÷

After interchanging the expression becomes:

= 77 + 12 ÷ 4 - 10 × 1 = 70

= 77 + 3 - 10 × 1

= 77 + 3 - 10

= 70 is equal to 70.

As we have found our answer, so, there is no need to check further options.

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

Question 64 :

Select the option that is related to the term in the same way as the second term is related to the first term. Amend: Rectify:: Chaos:?

Difficulty : Moderate

Average Time : 65 Seconds

Options :

Creativity

2. Array

3. Disorder

4. Ungreateful

Solution :

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

The logic used here is:

Amend: Rectify

Amend means to change something slightly in order to make it better.

Rectify means to correct something that is wrong.

Both are synonyms.

Similarly;

Chaos:?

Chaos means a state of great disorder.

Disorder means confused or badly organized state.

Both are synonyms.

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

Question 65 :

Figure (X) given below is a standard dice. Select the option that represents the image of the same dice when it is rotated 4 times 90 degrees clockwise and then once anticlockwise.

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

Options :

1.

3.

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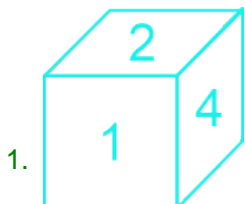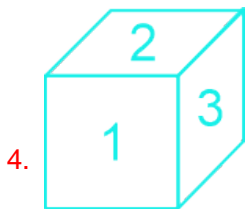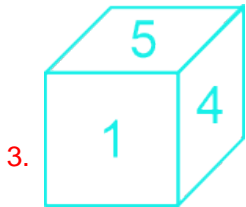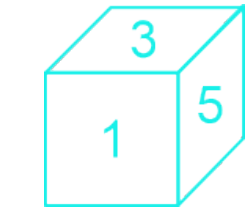
Solution :
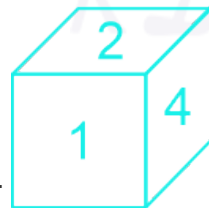
The correct answer is **option 1** i.e.

When the dice are rotated 4 times 90 degrees clockwise then 3 will be at the top or the dice will be the same as the dice shown in question.

then once the dice is rotated anticlockwise

then 2 will be at the top and 3 will not be visible at the front.

Question 66 :
Select the correct mirror image of the given figure (x) when the mirror is placed to the side of the figure

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

Options :

1.

2.

3.

4.

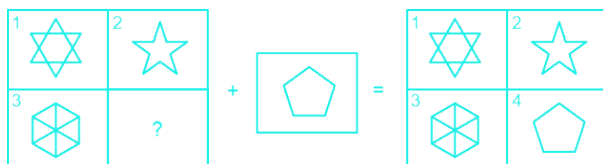**Solution :**

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

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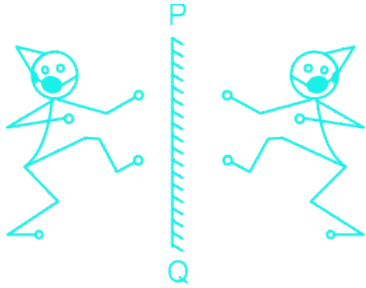
Since the mirror is placed right to the question figure, the right-hand side of the original image will now be the left-hand side of the mirror image.

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

Question 67 :
Three of the following teams are alike and one is different. Select the option that indicates the odd one.

Difficulty : Moderate   **Average Time : 72 Seconds**

Options :

1. Torch

2. Candle

3. Table Lamp

4. Night Bulb

Solution :

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

The logic used here is:

Torches, table lamps, and night bulbs use electricity or batteries to produce light, whereas candle does not require any of those.

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

Question 68 :
Select the Venn diagram that best illustrates the relationship between the following classes. Tree, Leaves, Chlorophyll

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

Options :

1.

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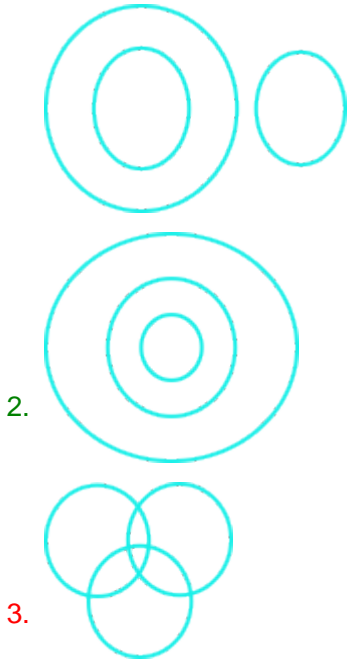
Solution :

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

.

The possible Venn diagram is:
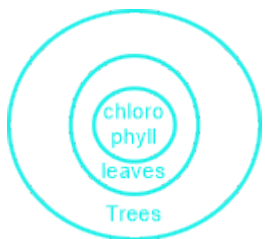
All chlorophyll are leaves. All leaves are trees.

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

Question 69 :
Select the option that is related to the third in the same way as the second figure is related to the first figure.

Difficulty : Moderate

Average Time : 61 Seconds

Options :

1.

2.

3.

4.

Solution :

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

The logic used here is:

Logic between 1 and 2:

The outer line of Figure 1 is drawn in Figure 2 and one dimension is removed.

Similarly; the pattern will be followed by 3 and 4.

The pattern is:

Question 70 :

Select the option that can replace the question mark (?) in the following series. 22, 25, 32, 41, 55, 82, 110, 191,?

Difficulty : Moderate

Average Time : 68 Seconds

Options :

1. 247
2. 233
3. 218
4. 256

Solution :

The correct answer is **option 1** i.e. **247.**

Given series: 22, 25, 32, 41, 55, 82, 110, 191,?

The series follows this pattern:
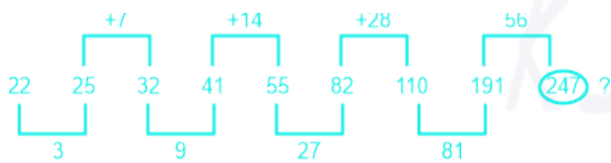
So, the next term in the series is **247.**

Question 71 :

Select the option that can replace the question mark in the following matrix: 8 14 21 24 42 63 17 29 ?

Difficulty : Moderate

Average Time : 41 Seconds

Options :

1. 33
2. 42
3. 43
4. 32

Solution :

The correct answer is **option 3** i.e. **43.**

The logic used here is:

Column 1:

8 + 17 = 25

25 - 1 = 24

Column 2:

14 + 29 = 43

43 - 1 = 42

Column 3:

63 + 1 = 64

21 + a = 64

a = 64 - 21 = 43

Question 72 :
Given below is a pattern out of which a section has been cut. Select the option that when replaced with the question mark (?) will complete the pattern.

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

Options :

1.

2.

3.

4.
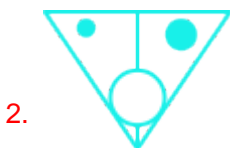
Solution :

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

The figure that will complete the pattern:
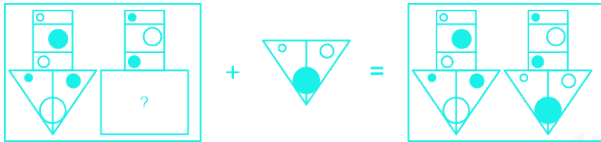
Question 73 :

Select the option that is related to the third number in the same way as the second number is related to the first number. 8: 515:: 14:?

Difficulty : Moderate

Average Time : 62 Seconds

Options :

1. 2784

2. 2747

3. 2477

4. 2845

Solution :

The correct answer is **option 2** i.e. **2747.**

The logic used here is:

8: 515

$8^3 = 512$

512 + 3 = 515

Similarly;

14:?

$14^3 = 2744$

2744 + 3 = 2747

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

Question 74 :
Select the option that is related to the third figure in the same way as the second figure is related to the first figure.
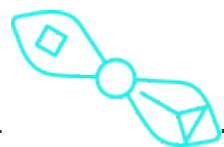
Difficulty : Moderate

Average Time : 43 Seconds

Options :

1.

2.

3.

4.
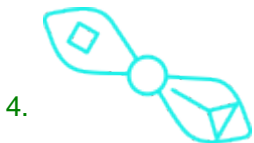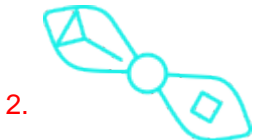
Solution :

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

The logic used here is:

Logic between figure 1 and figure 2:

The figure is rotated by 90 degrees in the clockwise direction.

Similarly; the pattern will be followed in Figure 3 and Figure 4.

The pattern is:

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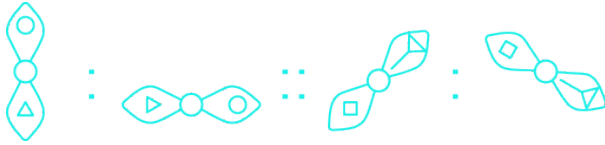
Question 75 :

Select the option that will replace the question mark (?) in the following figure series.

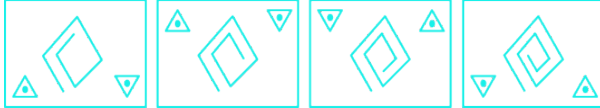**Difficulty : Moderate**

Average Time : 68 Seconds

Options :

1.

2.

3.

4.

Solution :

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

The logic used here is:

1. One line is added to the central figure.

2. The triangles are shifted to the opposite side and inverted upside down alternatively.

The image series:

Question 76 :
In the diagram given below. The circle represents the 'Female', the square represents the 'male', the triangle represents 'Cooking', and the rectangle 'Gardening'. What is the total number of males and females who can perform gardening but not cooking?

Difficulty : Moderate   **Average Time : 73 Seconds**

Options :
1. 29
2. 90
3. 19
4. 15

Solution :
The correct answer is **option 3** i.e. **19.**

The total number of males and females who can perform gardening but not cooking = Number that is common to circles and rectangles but not triangles + Number that is common to squares and rectangles but not triangles = 5 + 14 = 19

Question 77 :
Select the option that can replace the question mark (?) in the following series. 5, 41, 258, 1561,?

Difficulty : Moderate   **Average Time : 40 Seconds**

Options :
1. 8140
2. 9380
3. 8841
4. 9983

Solution :

The correct answer is **option 2** i.e. **9380.**

Given series: 5, 41, 258, 1561,?

The series follows this pattern:

$5 \times 6 + 11 = 30 + 11 = 41$

$41 \times 6 + 12 = 246 + 12 = 258$

$258 \times 6 + 13 = 1548 + 13 = 1561$

$1561 \times 6 + 14 = 9366 + 14 = 9380$
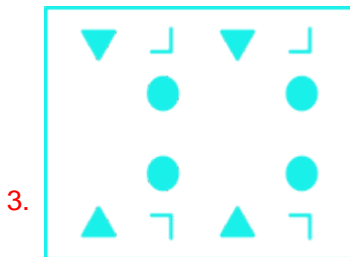
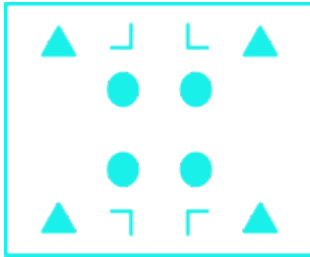So, the next term in the series is **9380.**

Question 78 :

A paper is folded and cut as shown below. How will appear when unfolded?
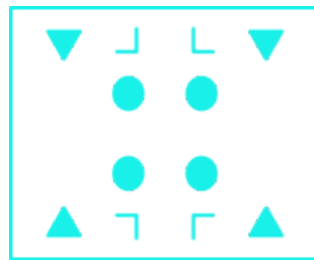
Difficulty : Moderate   **Average Time : 40 Seconds**

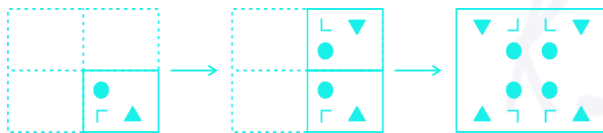**Options :**

1.

2.

3.

Solution :

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

After unfolding, the paper will appear as follows:

Question 79 :

If a seller bought a product for 360 rupees and sold it with 28% profit. Select the option which represents the approximate selling price of the product.

Difficulty : Moderate   **Average Time : 63 Seconds**

Options :

1. 461

2. 459

3. 464

4. 458

Solution :

The correct answer is **option 1** i.e. **461.**

Cost price = Rs.360

Profit% = 28%

As,

Profit% = ((S.P - C.P) ÷ C.P) × 100

28 = ((S.P - 360) ÷ 360) × 100

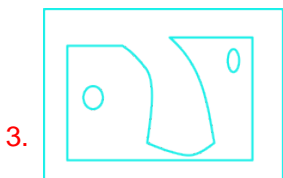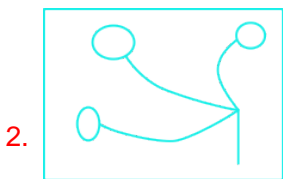S.P = 460.8 ~ = Rs. 461

Question 80 :
Select the option in which the given figure (x) is embedded (rotation is allowed).

Difficulty : Moderate   **Average Time : 40 Seconds**

Options :

1.

2.

3.

4.

Solution :

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

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

Question 81 :

Three of the following figures are alike and one is different. Select the option that indicates the odd one.

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

Options :

1.

2.

3.

4.

Solution :

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

The logic used here is:

All figures have one straight line. But in option 1, there is no straight line.
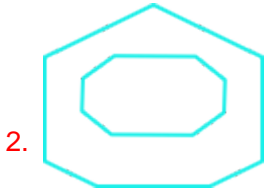
Hence, **option 1** is the odd one out.

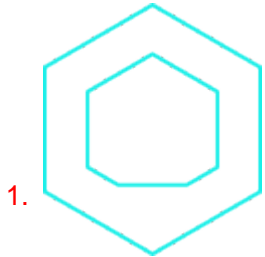**Question 82 :**

Three of the following figure are alike and one is different. Select the option that indicates the odd one.

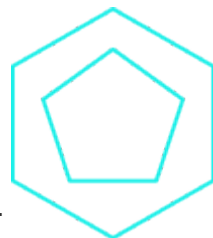**Difficulty : Moderate**

Average Time : 63 Seconds

Options :

1.

2.

3.

4.

Solution :

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

The logic used here is:

The number of sides of the inner figure is one more than the outer figure.

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But, in option 3, it is one less that the outer figure.

Hence, **option 3** is the odd one out.
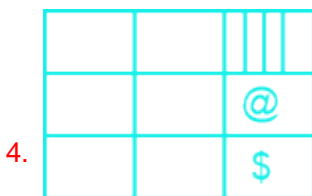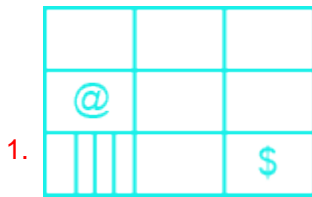
Question 83 :
Select the option that will replace the question mark (?) in the following figure series.

Difficulty : Moderate

Average Time : 65 Seconds

Options :

Solution :

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

The logic used here is:

1. The lines move diagonally from one corner to another corner and then horizontally to the other corner and again

diagonally to the other corner.

2. The @ symbol is moving in the anticlockwise direction in the middle squares.

3. The $ sign is moving diagonally to the next square.

The image series:
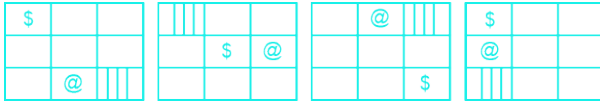
Question 84 :
In a certain code language, ONE DAY AT A TIME is written as J21 SN5 N3 3LG1' How will 'DYNAMITE' be Written in the same code language?

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

Options :

1. 5SA2G3L1
2. S52NLG31
3. S52NGL31
4. S5N2GL31

Solution :
The correct answer is **option 3** i.e. **S52NGL31.**

The logic used here is:

ONE DAY AT A TIME is written as J21 SN5 N3 3LG1'

O = J

N = 2

E = 1

D = S

A = N

Y = 5

A = N

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T = 3

T = 3

I = L

M = G

E = 1

Similarly;

Word for the code DYNAMITE:

D = S

Y = 5

N = 2

A = N

M = G

I = L

T = 3

E = 1

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

Question 85 :

The compound interest on a certain sum for 2 years at 15% p.a. is Rs 7,282, interest being compounded 8-monthly, What will be the amount of the same sum ate the rate for the same duration, When the interest is compounded yearly?

Difficulty : Moderate

Average Time : 70 Seconds

Options :

1. Rs. 29,095
2. Rs. 28,540
3. Rs. 29,282
4. Rs. 26,620

Solution :

The correct answer is **option 1** i.e. **Rs. 29,095.**

Rate is compounded 8 monthly,

So,

n = 24/8 = 3 year

Rate r = 15/12 × 8 = 10%

$CI = P[(1 + r/100)^n - 1]$

$7282 = P[1 + 10/100)^3 - 1]$

7282 = P[1331/1000 - 1]

7282 = 331P/1000

P = 22000

When the interest is compounded yearly,

$A = 22000(1 + 15/100)^2$

A = 22000 × 529/400

A = 29095

Question 86 :
If x% of 240 is equal to 60% of (x + 450), then 20% of (x + 50) is what percentage less than 40% of x?

Difficulty : Moderate

Average Time : 52 Seconds

Options :

1. 33 (1/3)%

2. 16 (2/3)%

3. 50%

4. 40%

Solution :
The correct answer is **option 1** i.e**. 33 (1/3)%.**

240 × x% = (x + 450) × 60%

4x = x + 450

x = 150

So, 20% of (x + 50)

= 20% × (150 + 50)

= 40

40% of x = 40% × 150 = 60

Required percentage = (60 - 40)/60 × 100

= 33(1/3)%

Question 87 :

The ratio of the number of boys and girls in a class is 9 : 7, The average weight of all the boys and girls is 54.25 kg, If the average weight of the girls is 52kg, then what is the average weight (in kg) of the boys?

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

Options :

1. 56.5

2. 57.5

3. 57

4. 56

Solution :

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

The ratio of the boys and girls = 9 : 7

Let's assume the average weight of the boys = x

According to the question,

$\frac{9x+7\times52}{16}=54.25$

9x = 504

x = 56

Question 88 :

A can do 33(1/3)% of a work in 10 days and B can do 66(2/3)% of the same in 8 days. Both worked together for 8 days. C alone completed the remaining work in 3 days. A and C together will complete $\frac{5}{6}$ part of the

original work in:â€‹â€‹

Difficulty : Moderate

Average Time : 51 Seconds

Options :

1. 20 days

2. 15 days

3. 12 days

4. 18 days

Solution :

The correct answer is **option 2** i.e.**15 days.**

According to the question,

A can finish 1/3 work = 10 days

A can finish the complete work = 30 days

B can finish 2/3 work = 8 days

B can finish the complete work = 12 days

Total work = LCM of 30 and 12 = 60 unit

Efficiency of A = 60/30 = 2

B = 60/12 = 5

They work together of 8 days then the remaining work completed by C.

Efficiency of C = x

So, the efficiency of C = [60 - (2 + 5) × 8]/x = 3

= 4/x = 3

x = 4/3

So, the 5/6 of the total work done by A and C.

Total time = [60 × 5/6]/[2 + (4/3)]

= 50/(10/3) = 15 days

Question 89 :

By Selling an article$\frac{8}{11}$ of its selling price, Madhu incurs a loss of 10%. If he sells the article at 85% of its actual selling price, then what is the profit percentage (correct to one decimal place)?

Difficulty : Moderate

Average Time : 69 Seconds

Options :

1. 6.4

2. 5.8

3. 6.5

4. 5.2

Solution :

The correct answer is **option 4** i.e. **5.2.**

Let's assume the selling price of the article = 121

8/11 part of the selling price = 121 × 8/11 = 88

Loss = 10%

CP = 88 × 100/90 = 97.77

85% of SP = 121 × 85/100 = 102.85

Profit = (102.85 - 97.77)/97.77 × 100

= 5.08/97.77 × 100 = 5.2%

Question 90 :

Arun spends 30% of his monthly income on groceries, 20% of the remaining on rent, and 45% of the remaining on children's education and other. If he saves Rs 5,544 a month, then how much (in Rs.) does he spend on rent?

Difficulty : Moderate

Average Time : 48 Seconds

Options :

1. 2,690

2. 2,520

3. 2,500

4. 2,680

Solution :

The correct answer is **option 2** i.e. **2,520.**

Let's assume the monthly income of Arun = x

According tothe question,

x × (100 - 30)/ 100 × (100 - 20)/ 100 × (100 - 45)/ 100 = 5544

x × 70/100 × 80/100 × 55/100 = 5544

x = 18000

Now,

Total money spend on rent = 18000 × 70/100 × 20/100 = 2520

Question 91 :

State whether the following statements related to MS Word are true or false. (i) A document file can have both, bulleted and numbered lists. (ii) Page margins in an MS Word document can be customized.

Difficulty : Moderate

Average Time : 50 Seconds

Options :

1. (i) True, (ii) False

2. (i) False, (ii) True

3. (i) False, (ii) False

4. (i) True, (ii) True

Solution :

The correct answer is **option 4** i.e. **(i) True, (ii) True.**

(i) A document file can have both, bulleted and numbered lists. - True

Yes, they can have both, bullet and numbered lists.

Both help to organize information and make it easier to read or understand.

Both are present in the Paragraph command group within the Home menu.

(ii) Page margins in an MS Word document can be customized. - True

Yes, page margins are customizable. It is the area between the main content and the edges of the page.

Used for defining the beginning and ending of the text lines.

Page Layout Margins Customize margins

Question 92 :
When you open a new file in the newer versions of MS Word, such as Word 2016, the default page margin is set as:

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

Options :
1. Moderate
2. Normal
3. Narrow
4. Mirrored

Solution :
The correct answer is **option 2** i.e. **Normal.**

When you open a new file in the newer versions of MS Word, such as Word 2016, the default page margin is set as **normal**.

Page margin is the area between the main content and the edges of the page.

Used for defining the beginning and ending of the text lines.

Page Layout Margins Customize margins

Question 93 :
Which of the following appears at the extreme right position of a worksheet in MS Excel?

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

Options :
1. Status bar
2. Vertical scroll bar
3. Horizontal scroll bar
4. Menu bar

Solution :
The correct answer is **option 2** i.e. **Vertical scroll bar.**

A **vertical scroll bar** appears at the extreme right position of a worksheet in MS Excel.

Vertical scroll bar:

It is used to view the data in Excel from up and down.

Horizontal scroll bar:

It is used to view the data from left to right.

Menu bar:

It displays the name of the open document. It is located on the top of a window.

Status bar:

It is found in the window's bottom. It indicates information about the current document.

Question 94 :

Consider a formula "=$D$3+$C$5" in cell B4. If cell B4 is copied and pasted into F10, then what will be the formula in cell F10?

Difficulty : Moderate   Average Time : 68 Seconds

Options :

1. =$E$3+$D$5

2. =$D$3+$C$5

3. =$E$4+$D$6

4. =$D$4+$C$6

Solution :

The correct answer is **option 2** i.e. **=$D$3+$C$5**

- If you copy the formula **"=$D$3+$C$5"** from cell B4 to cell F10, **the formula will retain its original structure**. The correct formula in cell F10 will still be:**= $D$3 + $C$5**
- The reason for this is that the dollar signs ($) in the cell references indicate **absolute references, meaning they do not change when the formula is copied to a different cell.**
- Therefore, the formula remains the same as it was in cell B4.

Thus, the correct formula would be =$D$3+$C$5.

Question 95 :

Which of the following keyboard shortcuts is used to open a new window in incognito (private) mode in a Chrome browser?

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

Options :

1. Ctrl + N

2. Alt + Ctrl + N

3. Ctrl + Shift + N

4. Ctrl + P

Solution :

The correct answer is **option 3** i.e. **Ctrl + Shift + N.**

Ctrl + Shift + N: Used to open a new window in incognito (private) mode in a Chrome browser.

Ctrl + N: Used to open a new window.

Ctrl + P: Used to print your current page.

Question 96 :

Which of the following does NOT appear as a part of the 'Paragraph' command group within the Home menu in recent versions of MS Word, such as Word 2016?

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

Options :

1. Bullets

2. Multilevel list

3. Numbering

4. Change case

Solution :

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

Change case does not appear as a part of the 'Paragraph' command group within the Home menu in recent versions of MS Word, such as Word 2016.

The buttons that are present within the Home menu in "Paragraph" group are:

1. Bullets

2. Numbering

3. Multilevel list

4. Increase/Decrease Indent

5. Sort

6. Show/Hide Paragraph Formatting

7. Borders

8. Shading

9. Line and Paragraph Spacing

10. Justify

11. Align Left

12. Align Right

13. Center

Question 97 :
POP3 is an email-related protocol. What does the numeric value '3' in POP3 represent?

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

Options :
   1. Number of characters in POP

   2. Header size of POP

   3. Version of POP

   4. Number of codes in POP

Solution :
The correct answer is **option 3** i.e. **Version of POP.**

POP:

1. It stands for Post Office Protocol.

2. The POP3 client is installed on the recipient system while the POP3 server is installed on the recipient's mail server.

3. POP 3 - Here 3 stands for the version of POP.

Question 98 :

What will be the result of the following MS Excel formula? = FACT(5-4)

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

Options :

1. 120

2. 1

3. 96

4. 24

Solution :

The correct answer is **option 2** i.e. **1.**

The FACT function returns the factorial of a given number and is a Math/Trig Function.

Given formula = FACT(5-4)

= FACT(1) = 1

Question 99 :

Which of the following is NOT a web search engine?

Difficulty : Moderate   **Average Time : 36 Seconds**

Options :

1. Bing

2. Baidu

3. Google

4. Safari

Solution :

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

A search engine is a software system that finds web pages that match a web search.

1. Microsoft Bing is a web search engine owned and operated by Microsoft since June 3, 2009.

2. Baidu is a search engine in China.

3. Google Search is a search engine provided and operated by Google.

Bing, Baidu, and Google are different search engines, whereas Safari is not a search engine.

Safari is a web browser developed by Apple on January 7, 2003.

Question 100 :
Which of the following keyboard shortcuts is equivalent to CTRL + S to save an open file in MS Word?

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

Options :
1. Shift + F5
2. Ctrl + F5
3. Shift + F12
4. Ctrl + F12

Solution :
The correct answer is **option 3** i.e. **Shift + F12.**

Shift + F12 / CTRL + S: Used to save an open file in MS Word.

Shift + F5: Moves the cursor to the location of the previous revision.

Ctrl + F5: Restores the document window size.

Ctrl + F12: Opens a file

Delhi Police Constable Tier 1 Previous Year Question Paper Analysis

The analysis of Delhi Police Constable Tier 1 Previous Year Question Paper held on 2020-12-02 in the Evening exam is as follows:
1. 100 questions were moderate.
2. The safe score is 75 marks.
3. 25 questions were asked from Logical Reasoning, 15 questions were asked from Numerical Ability, 50 questions were asked from General Awareness and 10 questions were asked from Computer Knowledge
4. 0 questions should have been skipped if you were short of time.

Delhi Police Constable Tier 1 Previous Year Question Paper Topic Wise Weightage

Logical Reasoning

1. Coding Decoding - 1
2. Mirror Image - 1
3. Analogy - 2
4. Classification - 1
5. Venn Diagrams - 2
6. Figure Based - 12
7. Matrix - 1
8. Series - 2
9. Mathematical Reasoning - 2
10. Cubes And Dice - 1

Numerical Ability

General Awareness

1. GK Misc - 50

Computer Knowledge

Delhi Police Constable Tier 1 Previous Year Question Paper Tips and Tricks

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TIPS & TRICKS

1. Try to solve Delhi Police Constable Tier 1 Previous Year Question Paper without taking any help from the solutions.
2. Delhi Police Constable Tier 1 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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Exam Pattern

Answer Key
Important Days

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