Rrb Group D CBT - 1 Previous Year Question Paper Overview

Here, you can solve all the questions asked in Rrb Group D CBT - 1 Previous Year Question Paper on 2018-10-29 in the Morning exam. The detailed solutions are also provided for every previous year question and some of these questions can be asked again in your Rrb Group D CBT - 1 exam. There are 100 questions in the exam and 90 minutes are provided for the Rrb Group D CBT - 1 exam. The Cutoff of the exam was 77 marks hence you should try to score at least 87 marks.

Rrb Group D CBT - 1 Previous Year Question Paper : Questions and Solutions

Question 1 :

The density of silver is 10.8×10.3 kgm-3 and the density of water is 10.3kgm-3. What is the relative density of Ag?

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

Options :

1. 0.108

2. 1.08

3. 108

4. 10.8

Solution :

The correct answer is **option 4**, i.e., *10.8.*

- **Relative density** can be calculated directly by measuring the density of a sample and dividing it by the (known) density of the reference substance.
- Solution:

  Relative density = 10.8×10^3 kgm^{-3}/10^3 kgm^{-3}

  = 10.8

Question 2 :

Who was the author of the trilogy "The Immortals of Meluha", "The Secret of the Nagas", and "The Oath of the Vayuputras"?

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

Options :

1. Amish Tripathi
2. Anand Neelakantan
3. Kavita Kane
4. Devdutt Pattanaik

Solution :

The correct answer is **option 1**, i.e., *Amish Tripathi.*

- Amish Tripathi is an Indian diplomat, columnist, and author, known for his novels The Immortals of Meluha, The Secret of the Nagas, The Oath of the Vayuputras, Ram: Scion of Ikshvaku, Sita: Warrior of Mithila and Raavan: Enemy of Aryavarta.

Question 3 :

.... is the first state of India to receive rainfall.

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

Options :

1. Kerala
2. Goa
3. Maharashtra
4. Gujarat

Solution :

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

- The moisture-laden winds on reaching the southernmost point of the Indian Peninsula, due to its topography, become divided into two parts: the *Arabian Sea Branch* and the *Bay of Bengal Branch.*
- The Arabian Sea Branch of **the Southwest Monsoon first hits the Western Ghats of the coastal state of Kerala, India, thus making this area the first state in India to receive rain from the Southwest Monsoon.**

Question 4 :
Which of these is the biggest tax reform made in India since independence?

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

Options :

1. Goods and Services Tax

2. Excise duty

3. Customs duty

4. Land revenue

Solution :
The correct answer is **option 1** i.e **Goods and Services Tax.**

- Our Government implemented the Goods and Services Tax(GST), "the biggest taxation reform is undertaken since Independence**.**" **Seventeen different taxes levied by the Central and State/UT Governments with the cascading effect of tax on tax were consolidated into one GST."**
- The tax came into effect from 1 July 2017 through the implementation of the One Hundred and First Amendment of the Constitution of India by the Indian government.
- India became a common market.

Question 5 :

The chemical formula of Ammonium phosphate is ....

Difficulty : Moderate

Average Time : 62 Seconds

Options :

1. $(NH_4)_3PO_4$
2. $(NH_4)_2PO_4$
3. $(NH_4)_2PO_2$
4. NH_4PO_4

Solution :

The correct answer is **option 1**, i.e., **$(NH_4)_3PO_4$.**

- **Ammonium phosphate** is an ammonium salt of orthophosphoric acid. It is a highly unstable compound with the formula **$(NH_4)_3PO_4$.**

Question 6 :

The carpel contains ....

Difficulty : Moderate

Average Time : 52 Seconds

Options :

1. Pollen grains

2. Sepals

3. Petals

4. Ovules

Solution :

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

> - **A carpel is composed of an ovary, a style, and a stigma,** although some flowers have carpels without a distinct style.
> - In origin, carpels are leaves (megasporophylls) that have evolved to enclose the ovules.
> - The term pistil is sometimes used to refer to a single carpel or to several carpels fused together

Question 7 :

Xylem is a/an .... tissue.

Difficulty : Moderate

Average Time : 53 Seconds

Options :

1. simple permanent

2. complex permanent

3. epithelial

4. connective

Solution :

The correct answer is **option 2**, i.e., *Complex permanent*.

- **Xylem** is a **permanent complex tissue** comprising tracheids, vessels, xylem parenchyma. It carries out the function of conducting water across the plant body. Phloem is a **permanent complex tissue** consisting of sieve tubes, companion cells, phloem fibers, and phloem parenchyma.

Question 8 :

What is the straight tube, about 40 cm long, that carries sperms to the seminal vesicles, called?

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

Options :

1. Urethra

2. Penis

3. Vas deferens

4. Scrotum

Solution :

The correct answer is **option 3**, i.e., *Vas deferens.*

The external structures of the Male Reproductive System include the penis, scrotum, and testicles.

- **Penis:** This is the male organ used in sexual intercourse.
- **Scrotum:** This is the loose pouch-like sac of skin that hangs behind and below the penis. It contains the testicles (also called testes), as well as many nerves and blood vessels.

The internal organs of the male reproductive system, also called accessory organs to include Epididymis, Urethra, Vas Deferens, Ejaculatory ducts, Seminal vesicles, Prostate glands, and Bulbourethral glands.

- **Urethra:** The urethra is the tube that carries urine from the bladder to outside of the body.
- **Vas Deferens: It is the straight tube, about 40 cm long, that carries sperms to the seminal vesicles.**

Question 9 :
The pressure variations inside the inner ear are turned into electrical signals by the:

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

Options :
1. Cochlea
2. Hammer
3. Stirrup
4. Anvil

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

- **The hammer, anvil, and stirrup**—also known as the malleus, incus, and stapes, respectively, and collectively, as "middle ear ossicles"—are the smallest bones in the human body.
- Found in the middle ear, they are a part of the auditory system between the eardrum and the cochlea (the spiral-shaped conduit housing hair cells that are involved in transmitting sound to the brain).
- The middle ear transmits the amplified pressure variations received from the sound wave to the inner ear.
- **In the inner ear, the pressure variations are turned into electrical signals by the cochlea.**
- These electrical signals are sent to the brain via the auditory nerve, and the brain interprets them as sound.

Question 10 :

.... is a purple-coloured solid halogen.

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

Options :

1. Bromine

2. Flourine

3. Chlorine

4. Iodine

Solution :

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

- A **purple coloured solid halogen** is Iodine.
- It belongs to the halogen family.

Question 11 :

How much work is done in moving a charge of 4 C across two points having a potential difference of 12 V?

Difficulty : Moderate

Average Time : 44 Seconds

Options :

1. 48 J
2. 3 J
3. 4 J
4. 12 J

Solution :

The correct answer is **option 1**, i.e., *48 J.*

CONCEPT	UNDERSTANDING	APPLICATION

• The potential difference between two points in an electric field is defined as the amount of work done in moving a unit charge from one point to another point. • Potential difference = Work Done/ Quantity of Charge moved. • If W joules of work has to be done to move charge Q from one point to another point then potential difference V between two points is given by : **V=W/Q**	To find: Work done Given: • Potential difference(V) = 12 V • Charge(Q) = 4 C	$W = V \times Q$ $= 12 \times 4$ $= 48\ J$

Question 12 :

Find the energy possessed by an object of mass 10 kg when it is at a height of 8 m above the ground. Given g=9.8 ms-2.

Difficulty : Moderate

Average Time : 82 Seconds

Options :

1. 784 J

2. 588 J

3. 520 J

4. 528 J

Solution :

The correct answer is **option 1**, i.e., **784 J.**

CONCEPT	UNDERSTANDING	APPLICATION

| The equation for gravitational potential energy is

GPE = mgh,

where

- m is the mass in kilograms,
- g is the acceleration due to gravity (9.8 on Earth), and
- h is the height above the ground in meters | To find: Energy

Given:

- mass = 10 kg
- height = 8 m
- g = 9.8 ms^{-2} | $GPE = mgh$
$= 10 \times 9.8 \times 8$
$= 784\ J$ |

Question 13 :

Which child artist won the 'Best Child Artist' award for the film 'Noor Islam' at the 64th National Film Awards 2017?

Difficulty : Moderate

Average Time : 73 Seconds

Options :

1. Munni

2. Matin Ray

3. Saj

4. Teena

Solution :

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

The 64th National Film Awards were announced on 7 April 2017.

Award	Winner
Best Child Artist	Adhish Praveen for Kunju Daivam, **Saj for Noor Islam,** and Manohara for Railway Children

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Question 14 :

What is the upward force exerted by the water on the bottle containing it called?

Difficulty : Moderate   **Average Time : 55 Seconds**

Options :

1. Tension

2. Buoyant Force

3. Thrust

4. Pressure

Solution :

The correct answer is **option 2**, i.e., *Buoyant Force.*

- **The upward force exerted by the water on the bottle is known as upthrust or buoyant force.**
- **Buoyancy or upthrust** is an upward force exerted by a fluid that opposes the weight of a partially or fully immersed object.
- All objects experience a force of buoyancy when they are immersed in a fluid. The magnitude of this buoyant force depends on the density of the fluid.
- **Tension** is described as the pulling force transmitted axially by the means of a string, a cable, chain, or similar one-dimensional continuous object.
- **Thrust** is a reaction force described quantitatively by Newton's third law. When a system expels or accelerates mass in one direction, the accelerated mass will cause a force of equal magnitude but opposite direction on that system.
- **Pressure** is the force applied perpendicular to the surface of an object per unit area over which that force is distributed.

Question 15 :
Who among the following was elected as President of the Sahitya Akademi in 2018?

Difficulty : Moderate

Average Time : 84 Seconds

Options :
1. Chandrashekar Kambar
2. U.R. Ananthamurthy
3. Pratibha Ray
4. Vinayak Krishna Gokak

Solution :
The correct answer is **option 1**, i.e., ***Chandrashekar Kambar.***

- **On February 12th, 2018, the famous Kannada litterateur Chandrasekhar Kambar was elected the new president of Sahitya Akademi.**
- Chandrashekhara Kambara is a prominent Indian poet, playwright, folklorist, film director in Kannada language and the founder-vice-chancellor of Kannada University in Hampi
- He is the third Kannada litterateur to be the President of the Sahitya Akademi.
- Earlier, **Vinayak Krishna Gokak** (1983) and **U.R. Anantamurthy** (1993) have served as president.
- **Pratibha Ray** was the first woman to win the Moortidevi Award in 1991.

Question 16 :
After India's 29th state, Telangana. was created, which of the following parties formed the first government in the state?

Difficulty : Moderate

Average Time : 68 Seconds

Options :

1. Telangana Rashtra Samithi (TRS)

2. Telangana Rajya Samithi (TRS)

3. Telangana Loka Samithi (TLS)

4. Telangana Maha Samithi (TMS)

Solution :
The correct answer is **option 1**, i.e., *Telangana Rashtra Samithi (TRS).*

- **In the 2014 Telangana Assembly Election, the Telangana Rashtra Samithi party won the majority of seats and formed the first Government in Telangana State.**
- Telangana Rashtra Samithi is an Indian regional political party based in Telangana.
- It was founded on 27 April 2001 by K. Chandrashekar Rao, with a single-point agenda of creating a separate Telangana state with Hyderabad as its capital.

Question 17 :

A solution contains 42 g of common salt in 320 g of water. Calculate the concentration in terms of mass by the mass percentage of the solution?

Difficulty : Moderate   Average Time : 63 Seconds

Options :

1. 11.6 g

2. 12.6%

3. 11.6%

4. 10.36%

Solution :

The correct answer is **option 3**, i.e., *11.6%.*

Solution:

- Mass of solute - NaCl = 42gm
- Mass of solvent - water = 320gm
- Mass of solution =(42+320) gm =362 gm

Concentration in terms of Mass by mass percentage

$$= \frac{\text{mass of solute}}{\text{mass of solution}} \times 100$$

$$= \frac{42}{362} \times 100$$

$$= 11.6\%$$

Question 18 :

The general formula of alkynes is:

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

Options :

1. $C_nH_{3n\ 3}$

2. $C_nH_{2n\ 2}$

3. $C_nH_{2n\ +\ 2}$

4. C_nH_{2n}

Solution :

The correct answer is **option 2,** i.e., $C_nH_{2n\ 2}$.

- The **alkynes** comprise a series of carbonâ€¢ and hydrogenâ€¢based compounds that contain at least one triple bond. This group of compounds is a homologous series with **the general molecular formula of C_nH_{2n-2},** where n equals any integer greater than one.
- The generic formula for alkanes is C_nH_{2n+2}
- Alkenes have the formula C_nH_{2n}

Question 19 :

220 g of carbon dioxide contains .... moles

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

Options :

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

Solution :

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

Solution:

Mass of CO_2 = 220 g
The molecular mass of CO_2 = 44 g

Number of moles = Mass of CO_2/Molecular mass of CO_2
= 220/44
= 5

The number of moles present in 220 g of CO_2 is 5.

Question 20 :

A body is falling from a height of 200 m. After it has fallen 100 m, the body will possess:

Difficulty : Moderate

Average Time : 61 Seconds

Options :

1. less kinetic energy and more potential energy

2. Zero potential energy and half Kinetic energy

3. more kinetic energy and less potential energy

4. half potential energy and half kinetic energy

Solution :

The correct answer is **option 4**, i.e., *half potential energy and half kinetic energy.*

- Since the body is in free-fall, the only force acting on it is gravity. Therefore, we can use the principle of conservation of mechanical energy - initially, the ball has potential energy and no kinetic energy.
- After it has fallen a height of 100mâ€‹ it will possess half potential and half kinetic energy.
- Hence, option 4 is correct.

Question 21 :

The plant hormone that helps in the growth of the stem is ....

Difficulty : Moderate

Average Time : 61 Seconds

Options :

1. Gibberellins

2. Cytokinins

3. Auxins

4. Insulin

Solution :

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

- **Auxins** promote stem elongation, inhibit the growth of lateral buds (maintains apical dominance). They are produced in the stem, buds, and root tips. Example: Indole Acetic Acid (IA).
- **Auxin** is a plant hormone produced in the stem tip that promotes cell elongation.
- **Cytokinins** are a class of plant growth substances that promote cell division, or cytokinesis, in plant roots and shoots.
- **Gibberellins** are plant hormones that regulate various developmental processes, including stem elongation, germination, dormancy, flowering, flower development, and leaf and fruit senescence.
- **Insulin** regulates the metabolism of carbohydrates, fats, and protein by promoting the absorption of glucose from the blood into liver, fat, and skeletal muscle cells.

Question 22 :
The elements belonging to groups .... are known as 'd' block elements.

Difficulty : Moderate   Average Time : 70 Seconds

Options :

1. 3 to 12

2. 1 and 2

3. 13 to 18

4. 3 to 10

Solution :
The correct answer is **option 1**, i.e., *3 to 12.*

- **The d-block elements are found in groups 3, 4, 5, 6, 7, 8, 9, 10, 11, and 12 of the periodic table.**
- d-block elements are also known as the **transition metals**.
- The d orbital is filled with the electronic shell "n-1."

Question 23 :

"Bharatiya Jnanpith" is an organization related to which of the following?

Difficulty : Moderate

Average Time : 48 Seconds

Options :

1. General knowledge

2. Architecture

3. Science

4. Literature

Solution :

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

- **Bharatiya Jnanpith a literary and research organization**, based in New Delhi, India, was **founded on February 18, 1944, by Sahu Shanti Prasad Jain** of the Sahu Jain family and his wife Rama Jain to undertake systematic research and publication of Sanskrit, Prakrit, Pali and Apabhramsha texts and covering subjects like religion, philosophy, logic, ethics, grammar, astrology, poetics, etc.
- **Bharatiya Jnanpith is one of the premier literary organizations of India**, which is nurturing literature and culture through its literary endeavors, which include Awards, Publication, Fellowship, and Research for the last several decades.

Question 24 :

Identify the A quiet maritime strategic diplomacy that has emerged as the key theme of this year's Union Budget 2018-19?

Difficulty : Moderate

Average Time : 66 Seconds

Options :

1. Big investment in island nations

2. Moderate investment in coastline infrastructure

3. Big investment in coastline guard and patrol

4. Moderate investment in Hitech Vessels

Solution :

The correct answer is **option 1**, i.e., *Big investment in island nations*.

> **Budget 2018: Big investment in island nations, with an eye on maritime diplomacy**
>
> - A quiet maritime strategic diplomacy has emerged as the key theme of this year's Union budget, as the government has allocated large sums of money — hitherto meant for key neighbouring countries.
> - Beneficiaries of the Budget are Seychelles, Mauritius, Sri Lanka, and Maldives — all island nations in the strategic Indian Ocean region, where India is competing against China for influence.

Question 25 :
Complete the following. 1 kwh = ...?

Difficulty : Moderate

Average Time : 62 Seconds

Options :

1. 36×10^{-6} J

2. 3.6×10^{-6} J

3. 3.6×10^{6} J

4. 36×10^{6} J

Solution :

The correct answer is **option 3**, i.e., *3.6 × 10^6 J.*

- Kilowatt-hour is an energy unit (symbol kWh or kWh).

  One kilowatt-hour is defined as the energy consumed by the power consumption of 1kW for 1 hour.

- One kilowatt-hour is equal to 3.6×10^6 joules:

  1 kWh = 3.6 ×10^6 J

Question 26 :

Which Indian cricketer has inaugurated his global cricket academy at UAE recently?

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

Options :

1. Sachin Tendulkar

2. MS Dhoni

3. Rahul Dravid

4. Virat Kohli

Solution :

The correct answer is **option 2**, i.e., *MS Dhoni.*

- **Mahendra Singh Dhoni has launched his first global cricket academy in the United Arab Emirates in Nov 2017.**
- The academy is jointly launched by the Dubai-based Pacific Sports Club and Aarka Sports Club.
- The facility, named the **MS Dhoni Cricket Academy (MSDCA),** will have coaches from India to train the wards.

Question 27 :

The product of mass and velocity is called:

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

Options :

1. Potential energy

2. Momentum

3. Force

4. Kinetic energy

Solution :

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

- The physical quantity that is the result of **the product of mass and velocity is called momentum**.
- **P=mv,** where P is momentum, m is the mass of the object, and v is its velocity.
- The **kinetic energy** of an object is the energy that it possesses due to its motion.
- **Potential energy** is energy stored in an object due to its position or arrangement.
- A **force** can cause an object with mass to change its velocity, i.e., to accelerate.

Question 28 :

The Sangam period is considered as the Golden Era of Tamil language as many classical Tamil _____ were written during this period.

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

Options :

1. Novels

2. Prose

3. Poems

4. Epics

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Solution :

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

- The period roughly between the 3rd century B.C. and 3rd century A.D. in South India (the area lying to the south of river Krishna and Tungabhadra) is known as the Sangam Period.
- The Sangam age is considered to be the golden era of Tamil language.
- Sangam literature is referring the Tamil poetry created by various Poets and saints during this period.

Question 29 :

'Wings India 2018' is a mega show in the Civil Aviation and Aerospace area that showcases airlines, aircraft, and 5 infrastructure. Which Indian city hosted this event in 2018?

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

Options :

1. Bhubaneswar

2. Hyderabad

3. Bengaluru

4. Chennai

Solution :

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

- **'Wings India 2018'** is a mega show in the Civil Aviation and Aerospace area that showcases airlines, aircrafts and 5 infrastructure
- **The event was scheduled from March 8 to 11, 2018 at Begumpet Airport, Hyderabad, India, with the theme 'India - Global Aviation Hub'.**
- Organized in pursuance to the Prime Minister's vision of 'giving flight to the aspirations of the common man', the event is being jointly organized by the Ministry of Civil Aviation, Government of India, Airport Authority of India and Federation of Indian Chambers of Commerce and Industry (FICCI).

Question 30 :
What is the new Reverse Repo rate announced by the Reserve Bank of India (RBI) as of 1st August 2018?

Difficulty : Moderate   Average Time : 64 Seconds

Options :

1. 5.75

2. 6.75

3. 6.5

4. 6.25

Solution :
The correct answer is **option 4**, i.e., *6.25.*

- **Reverse repo rate** is the rate at which the central bank of a country (Reserve Bank of India in case of India) borrows money from commercial banks within the country. It is a monetary policy instrument that can be used to control the money supply in the country.
- The **Reserve Bank of India** increased the Repo Rate again **on the 1st of August 2018** from 6.25% to 6.50%. Even **the reverse repo rate was increased to 6.25% from 6%**, and the Marginal Standing Facility Rate went up by 25 basis points to 6.75% from 6.50%.

Question 31 :
Which sport is Kidainbi Srikanth renowned for?

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

Options :

1. Badminton

2. Tennis

3. Football

4. Chess

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

- **Srikanth Kidambi is an Indian badminton player** who trains at the Gopichand Badminton Academy, Hyderabad.
- He became the best men's singles badminton player in the world in April 2018.
- Kidambi was awarded with the Padma Shri, India's fourth-highest civilian award in 2018. and the Arjuna award in 2015.

Question 32 :
Choose the bird which does not belong to the group.

Difficulty : Moderate

Average Time : 50 Seconds

Options :
1. Peacock
2. Eagle
3. Ostrich
4. Hen

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

- Peacock, hen, and ostrich belong to the **Phasianidae family.**
- The Phasianidae are a family of heavy, ground-living birds, which includes pheasants, partridges, junglefowl, chickens, turkeys, Old World quail, and peafowl. The family includes many of the most popular gamebirds.
- Eagle is the common name for many large birds of prey of the family **Accipitridae**.

Question 33 :
Shillong is the capital of ......

Difficulty : Moderate

Average Time : 51 Seconds

Options :
1. Tripura
2. Meghalaya
3. Nagaland
4. Assam

Solution :

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

- **The capital of Meghalaya is Shillong**.
- During the British rule of India, the British imperial authorities nicknamed it the "Scotland of the East".
- Meghalaya was previously part of Assam, but on 21 January 1972, the districts of Khasi, Garo and Jaintia hills became the new state of Meghalaya

Question 34 :
Which of the following elements has the largest-size ions?

Difficulty : Moderate

Average Time : 49 Seconds

Options :

1. P

2. Cl

3. Ar

4. S

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

- The size of an element's ionic radius follows a predictable trend on the periodic table.
- As you move down a column or group, the ionic radius increases. This is because each row adds a new electron shell.
- Ionic radius decreases moving from left to right across a row or period.
- Ionic radius $P^{3-} > S^{2-} > Cl^- > K^+ > Ca^{2+}$

Question 35 :
Momentum = ...?

Difficulty : Moderate

Average Time : 58 Seconds

Options :

1. Mass × Acceleration

2. Mass / Volume

3. Mass × Velocity

4. Mass × Density

Solution :

The correct answer is **option 3**, i.e., *Mass × Velocity*.

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- In Newtonian mechanics, linear momentum, translational momentum, or simply momentum is the product of the mass

Question 36 :

Which of the following Indian State Political parties is led by Ram Vilas Paswan?

Difficulty : Moderate

Average Time : 53 Seconds

Options :

1. Rashtriya Lok Samta Party

2. Lok Jahshakti Party

3. Rashtriya Lok Dal

4. Shiromani Akali Dal

Solution :

The correct answer is **option 2** i.e. **Lok Jahshakti Party.**

- The Lok Janshakti Party (LJP) is a state political party in the state of Bihar, India.
- It is led by Ram Vilas Paswan.
- The party was formed in 2000 when Paswan split from Janata Dal (United).
- The Shiromani Akali Dal is an Indian state political party in Punjab, India led by Sukhbir Singh Badal.
- Rashtriya Lok Dal is a political party in India. Chaudhary Ajit Singh is the founder and the president of the party.
- Rashtriya Lok Samta Party is a political party in India led by Upendra Kushwaha. It was launched on 3 March 2013 and is based in the state of Bihar.

Question 37 :

The general reaction between a metal oxide and an acid can be written as:

Difficulty : Moderate

Average Time : 73 Seconds

Options :

1. Metal oxide + acid Salt + Water

2. Metal oxide + acid Salt + Precipate

3. Metal oxide + acid Water + Gas

4. Metal oxide + acid Salt + Gas

Solution :

The correct answer is **option 1**, i.e., **Metal oxide + acid Salt + Water.**

> - **When an acid reacts with a metal oxide, it leads to the production of salt and water molecule**. The equation involving this type of reaction follows:
> - Metal oxide + acid Salt + Water.

Question 38 :

Who won the 'Outstanding Parliamentarian' Award for 2017 given by the Indian Parliamentary Group (IPG)?

Difficulty : Moderate

Average Time : 53 Seconds

Options :

1. Bhartruhari Mahtab

2. Arun Jaitley

3. Narendra Modi

4. Rahul Gandhi

Solution :

The correct answer is **option 1**, i.e., **Bhartruhari Mahtab.**

- **The Outstanding Parliamentarian Award is an award given by the Indian Parliamentary Group to an outstanding sitting Member of the Indian Parliament for overall contribution in the Indian Parliament.**
- It was instituted in 1995 by Shivraj Patil, who was the Speaker of Lok Sabha from 1991 to 1996.

Year	Laureates
2010	Arun Jaitley
2016	Dinesh Trivedi
2017	**Bhartruhari Mahtab**

Question 39 :

Which company has appointed Mr. Rangarajan Raghavan as its Managing Director?

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

Options :

1. WIPRO
2. TCS
3. INFOSYS
4. HCL Infosystems Ltd.

Solution :

The correct option is **option 4**, i.e., *HCL Infosystems Ltd.*

- **Rangarajan Raghavan appointed as Managing Director of HCL Infosystems Ltd.**
- Abidali Neemuchwala is an Indian-American business executive. He is the chief executive officer and managing director of **Wipro** since February 2016.
- Rajesh Gopinathan is the CEO and Managing Director of **Tata Consultancy Services**, a global IT firm.
- Salil Parekh is the current chief executive officer and managing director of **Infosys**.

Question 40 :

'Purna Swaraj' was announced in the Indian National Congress session of ....

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

Options :

1. Nagpur

2. Poona

3. Calcutta

4. Lahore

Solution :

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

- **The Indian National Congress, on 19 December 1929, passed the historic 'Purna Swaraj'** – (total independence) resolution – at its **Lahore session**.
- A public declaration was made on 26 January 1930 – a day which the Congress Party urged Indians to celebrate as 'Independence Day'

Question 41 :

.... has very high melting and boiling points.

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

Options :

1. Diamond

2. Fullerene

3. Graphite

4. Charcoal

Solution :

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

- Diamond and Graphite have more melting and boiling points. Because they are the substances with giant covalent structures have very high melting points, because a lot of strong covalent bonds must be broken.
- Diamond has the highest.

Question 42 :

Who became the first visually impaired Indian runner to complete the historic Boston Marathon in 2017?

Difficulty : Moderate

Average Time : 49 Seconds

Options :

1. Rinku Hooda

2. Sagar Baheti

3. Varun Bhati

4. Sharath Gayakwad

Solution :

The correct answer is **option 2**, i.e., *Sagar Baheti.*

- **India's Sagar Baheti on 17 April 2017 became the first visually impaired Indian runner to complete the historic Boston Marathon.** Supported by the Massachusetts Association for the Blind and Visually Impaired (MABVI), Baheti completed a distance of 42.16 kilometres in just over four hours.
- **Rinku Hooda** is a 17 year old Indian para javelin thrower who competes in the F-46 category.
- **Sharath M. Gayakwad** is an Indian Paralympic swimmer from Bangalore.
- **Varun Singh Bhati** is a para high jumper from India.

Question 43 :

Which of the following ideas of the Constitution of India were inspired by Russia?

Difficulty : Moderate   Average Time : 65 Seconds

Options :

1. Amendment procedure

2. Fundamental Rights

3. Fundamental Duties

4. Directive Principles

Solution :

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

Name of Countries	Borrowed Features of the Constitution
Ireland	Directive Principles of State Policy
United State of America	Fundamental Rights

USSR (Now Russia)	Fundamental duties
South Africa	Amendment of the Constitution

Question 44 :

Which one of the following is NOT correct for Rhizoid?

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

Options :

1. They are multi-cellular and composed of epithelial tissues

2. They are protuberances that extend from the lower epidermal cells of bryophytes.

3. They get attached with substratum with the help of rhizoid.

4. They are similar in structure and function to the root hairs of vascular land plant.

Solution :

The correct answer is **option 1**, i.e., *They are multi-cellular and composed of epithelial tissues.*

- **Rhizoids** are simple, hair-like projections that grow out of the epidermal cells of bryophytes. The term **bryophyte** refers to a group of plants that includes mosses, liverworts, and hornworts. All of these are nonvascular plants or plants that don't have complex tissues for transporting water and nutrients.

  Rhizoids are similar in structure to the root hairs found on more complex vascular plants. Rhizoids are formed from single cells, unlike roots, which are multicellular organs.

- Rhizoids may be unicellular or multicellular.

Question 45 :

The plant parts tends to move towards light, this phenomenon is called :

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

Options :

1. Positive phototropism

2. Negative tropism

3. Positive tropism

4. Negative phototropism

Solution :

The correct answer is **option 1**, i.e., *Positive phototropism.*

- Phototropism is one of the many **plant tropisms or movements which respond to external stimuli.**
1. **Growth towards a light source is called positive phototropism,** while
2. growth away from light is called **negative phototropism** (skototropism).
- Tropism can be called positive or negative.
1. **Positive tropism** is movement or growth towards a stimulus, whereas
2. **negative tropism** is the movement or growth away from a stimulus.

Question 46 :

The following pie diagram shows the revenue of the company ABC. which manufactures leather products. The total revenue of the company for the year 2015 was Rs. 36,28,000. How much revenue was made on the sales of wallets & belts?

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

Options :
1. Rs. 9,07,000

Rs. 1,81,400

3. Rs. 90,700

4. Rs. 1,814,000

Solution :

The correct answer is option 1 i.e. Rs 9,07,000

Understanding/Application
Given,
Wallet = Red = 5
Belt = Green = 20
Total revenue = 36,28,000
Revenue of Wallet and Belt together,
(5 + 20) = 25
A/q = 100 = 36,28,000
So, 25 = (36,28,000/100)25 = Rs 9,07,000

Question 47 :

In a group of 1300 students, every student reads 5 subjects and every subject is read by 65 students. The number of subjects are:

Difficulty : Moderate

Average Time : 46 Seconds

Options :

1. exactly 100

2. may be 250

3. at the most 70

4. at least 10

Solution :

The correct answer is option 1 i.e. Exactly 100

Understanding/Application

Given,

Number of students = 1300

Every subject read by = 65 students

Every students read = 5 subjects

No. of Subject = (1300/65)5 = (20)5 = 100

Hence, Exactly 100 subject.

Question 48 :

The ratio of the ages of the father and the son ten years from the present was 11 : 3. Ten years hence the ratio would be 21 : 13. What are the present ages of the father and the son?

Difficulty : Moderate

Average Time : 49 Seconds

Options :

1. 32, 16

2. 22, 14

3. 25, 15

4. 32, 12

Solution :

 The correct answer is **option 1** i.e. **32, 16**

Understanding/Application

10 years before = 11 : 3.

10 years after = 21 : 13

$(21x - 20)/(13x - 20) = 11/3$

$63x - 60 = 143x - 220$

$80x = 160$

$x = 2$

After 10 years age of father = $21x = 21(2) = 42$ years

After 10 years age of son = $13x = 13(2) = 26$ years

Present age of father = $42 - 10 = 32$ years

Present age of son = $26 - 10 = 16$ years

Question 49 :

$4x^2 + kx + 5$ is divisible by x 1. The expression is also divisible by

Difficulty : Moderate

Average Time : 51 Seconds

Options :

1. 4x 5

2. x 5

3. 4x + 5

4. 4x 1

Solution :

The correct answer is option 1 i.e. $(4x - 5)$.

Understanding/Application

first we need to find the value of k

so,

x - 1 = 0

x = 1

$f(x) = 4x^2 + kx + 5$

$f(1) = 4(1)^2 + k \times 1 + 5$

f(1) = 4 + 1K +5

f(1) = 9 +1K

∵ the equation is divisible by x - 1

f(1) = 0

0 = 9 + k

k = - 9

$f(x) = 4x^2 + (-9)x + 5$

$4x^2 - 9x + 5$

$4x^2 - 9x + 5$

$4x^2 - 4x - 5x + 5$

4x(x - 1) -5(x - 1)

(4x - 5) (x - 1)

Hence, $4x^2 + kx + 5$ also divisible by (4x - 5).

Question 50 :
Find the value of

Difficulty : Moderate   **Average Time : 85 Seconds**

Options :

1. 0.9

2. 1.2

2.0

4. 0.11

Solution :

The correct answer is option 4 i.e. 0.11

we know from algebra

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

$$\frac{(0.22)^3 - (0.11)^3}{0.0484 + 0.242 + 0.0121} = \frac{(0.22 - 0.11)(0.22^2 + 0.22 \times 0.11 + 0.11^2)}{(0.0484 + 0.242 + 0.0121)}$$

$$\frac{(0.22)^3 - (0.11)^3}{0.0484 + 0.242 + 0.0121} = 0.22 - 0.11 = 0.11$$

Question 51 :

A sum of money invested for 4 years and 9 months at a rate of 8% simple interest per annum became Rs 1,035 at the end of the period. What was the sum that was initially invested?

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

Options :

1. Rs 700

2. Rs 675

3. Rs 725

4. Rs 750

Solution :

The correct answer is option 4 i.e. Rs 750

Understanding/Application

Given,

Amount = 1035

ROI = r = 8%

Time = 4 years and 9 months = (4 + 9/12) years = 19/4 year

Formula:

Amount = P + (P/100)rt

So,

Amount = P [1 + (1/100)rt]

P = Amount/[1 + (1/100)rt]

= 1035/[1 + (1/100)(8)(19/4)]

= 1035/[1 + 19/50]

= 1035/[69/50]

= (1035 × 50)/69

= 15 × 50 = Rs 750

Question 52 :

Find the least number which should be subtracted from 9999 so that the difference is exactly divisible by 16?

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

Options :

1. 15

2. 12

3. 14

4. 13

Solution :

The correct answer is option 1 i.e. 15

Understanding/Application

The largest Four digit number is 9999.

Divide it by 16

subtract the remainder from 9999

Now,

9999/16 = (16 × 24) + 15

Remainder = 15

So, 15 is subtracted from 9999 i.e 9984 is exactly divisible by 16. which is also the highest 4 digit number which is completely divisible by 16.

Question 53 :

X attempts 100 questions and gets 340 marks. If for every correct answer is 4 marks and wrong answer is negative one mark, then the number of questions wrongly answered by Mr. X is:

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

Options :

1. 14

2. 15

3. 12

4. 13

Solution :

The correct answer is option 3 i.e. 12

Understanding/Application

Given,

Total number of questions = 100

Right get 4 marks and wrong gets -1 marks

Total marks got by Mr. X = 340

Right = a

Wrong = 100 - a

Now,

4(a) - 1(100 - a) = 340

4a - 100 + a = 340

5a = 440

a = 88 = correct number of questions

So, wrongly answered questions = 100 - 88 = 12

Question 54 :

If A is greater than 0° and less than equal to 90°, then find the minimum value of (4cosec2A + 9sin2A)?

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

Options :

1. 6

2. -12

3. 12

4. -18

Solution :

The correct answer is **option 3** i.e. **12**

Application

> For minimum value = 2 (ab)
>
> a = 4
>
> b = 9
>
> So, Minimum value = 2(4 × 9)
>
> = 2 (36) = 2 × 6 = 12

Question 55 :

The following diagram represents the survey results on two brands of chips conducted on a sample size of 50 customers. Based on the figure, how many liked none of the two brands of chips?

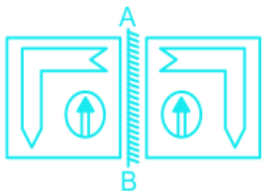**Difficulty : Moderate**   **Average Time : 48 Seconds**

Options :

1. 20

2. 0

3. 5

4. 25

Solution :

The correct answer is option 2 i.e. 0

On a sample size of 50 customers, 25 like B_1 brand 20 like B_2 brand and 5 like both brand hence no one left, hence all customers liked either B_1, B_2 or both of the two brands of chips.

Question 56 :

In a triangle C = 90° and A= 60° then SinA/2 + CosecC = ?

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

Options :
1. 3/2

    1

3. 2

4. 1/2

Solution :

The correct answer is **option 1** i.e. **3/2**

Sin A/2 = Sin30° = 1/2

Cosec C = Cosec90° = 1

Sin A/2 + Cosec C = 1/2 + 1 = 3/2

Question 57 :
The following pie chart shows information on the sales of a toy making company "XYZ" during 2017-18 financial year. The total revenue from the sale of all types of toys is Rs 38,72,000/- What is the sales revenue earned on "Soft toys" by the company XYZ?

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

Options :
   1. 9,68,000

   2. 3,87,200

   3. 7,74,400

   4. 1,93,600

Solution :
The correct answer is option 1 i.e. 9,68,000

Understanding/Application
The total revenue = Rs 38,72,000/-
according to the pie chat = Soft toy's arc = Red = 25 out of 100 = 25/100 = 1/4th of total
So,
Soft toy's revenue = 3872000 × (1/4) = 9,68,000

Question 58 :

How many natural numbers less than 500, when divided by 35 and 49, will leave a remainder of 30 in each case?

Difficulty : Moderate

Average Time : 45 Seconds

Options :

1. 4

2. 3

3. 2

4. 1

Solution :

The correct answer is option 4 i.e. 1

Understanding/Application
LCM of 49 and 35 = 245
1st number = 245 + 30 = 275
2nd number = 2(245) + 30 = 520 (i.e more than 500)
So, only number 245 divided by 35 and 49, will leave a remainder of 30 in each case.

Question 59 :

The number of books sold by a seller over a year is as follows. In which months did he sell more than the average number of books sold that year? Months Number of books sold January 2,000 February 1,500 March 2,500 April 3,000 May 2,000 June 1,000 July 1,500 August 2,000 September 5,000 October 2,000 November 150 December 6,000

Difficulty : Moderate

Average Time : 52 Seconds

Options :

1. September

2. June and March

3. January, May and December

4. March, September and December

Solution :

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The correct answer is option 4 i.e. March, September and December

Understanding/Application
A/q- The average number of books sold = 100[(20 + 15 + 25 + 30 + 20 + 10 + 15 + 20 + 50 + 20 + 1.5 + 60)]/12 = [100(286.5)]/12 = 28650/12 = 2387.5   more than the average = 2500(March), 5000(September) and 6000(December)

Question 60 :

The usual average speed of a car on a particular stretch of road is 75 km/hr. On a particular day, the average speed was 12% less than the usual, as a result of which the time taken was 15 minutes more. How long is the stretch of road, in kilometers?

Difficulty : Moderate   **Average Time : 55 Seconds**

Options :

1. 155

2. 176

3. 165

4. 150

Solution :

The correct answer is option 3 i.e. 165

Understanding/Application

Given,

Speed = s_1 = 75 km/hr

Distance = constant

$Time_1$ = x

$Time_2$ = x + 15

Speed reduce by 12% = s_2 = 75 - (75/100)9 = 66 km/hr

Formula:

Distance = Speed × Time

Now,

$s_1 \times t_1 = s_2 \times t_2$

75 × x = 66 × (x + 15)

75x = 66x + (66 × 15)

9x = (66 × 15)

x = (66 × 15)/9 = 165

Question 61 :

Prasid and Deep separately can do a certain work in 32 and 24 days respectively. They decided to do the work together and Niloy also joined them. If all of them together can complete the same work in 8 days, then how long does Niloy take to do the work alone?

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

Options :

1. 92/5 days

2. 96/5 days

3. 94/5 days

4. 89/5 days

Solution :

The correct answer is option 2 i.e. 96/5 days

Understanding/Application

Prasid = 32 days

Deep = 24 days

Niloy = x days

(P + D + N) = 8 days

Total work = LCM of 8, 32 and 24 = 96 units

Now,

Efficiency of P = 96/32 = 3

Efficiency of D = 96/24 = 4

Efficiency of (P + D + N) = 96/8 = 12

So, Efficiency of N = Efficiency of (P + D + N) - {Efficiency of P + Efficiency of D}

= 12 - {3 + 4} = 12 - 7 = 5

Now, Niloy work alone = 96/5 days

Question 62 :

A boy has 120 balls of which some are white and the remaining are black. If the percentage of white balls is 45%, find the number of black balls he has.

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

Options :

1. 56

2. 66

3. 64

4. 54

Solution :

The correct answer is **option 2** i.e. **66**

Application

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Given,

Total number of ball = 120 (White + Black)

White ball% = 45%

So, Blackball = (100 - 45)% = 55%

Hence, Number of blackball

= (120/100)55 = 66

Question 63 :
What happens to the volume (V) of the cuboid, If its length is doubled height is doubled and breadth is kept the same?

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

Options :

1. V

2. V/2

3. 4V

4. 2V

Solution :
The correct answer is option 3 i.e. 4V

Understanding/Application

Given,

Volume of cuboid = V

Let, L = B = H = 3

So, Volume of cuboid = 3 × 3 × 3 = 27

Now, A/q-

L is doubled = 2 × 3 = 6

H is doubled = 2 × 3 = 6

B is same = 3

Now, Volume of new cuboid = 6 × 6 × 3 = 108

OLD volume : New Volume = 27 : 108 = 1 : 4

New volume is 4 times of Old

Hence, After change volume = 4(V) = 4V

Question 64 :

The sum of the present ages of two persons is seven times that of the difference between their ages. After 5 years, the sum of their ages will become nine times that of the difference. What is the present age of the elder person?

Difficulty : Moderate

Average Time : 64 Seconds

Options :

1. 24 years

2. 28 years

3. 14 years

4. 20 years

Solution :

The correct answer is option 4 i.e. 20 years

Understanding/Application

Let,

P1 age = x

P2 age = y

$(x + y) = 7(x - y)$....(i)

$x + y = 7x - 7y$

$8y - 6x$

and After 5 years

$(x + y) = 9(x - y)$

$10y - 8x$

Now, Add (ii) and (iii)

$8y - 6x + 10 = 10y - 8x$

$2y - 2x = 10$

$y - x = 5$ .....(iv) put in (i)

$(x + y) = 7(5)$

$(x + y) = 35$ ..(v)

Add (v) and (iv)

$2y = 40$

$y = 20$ years

So, $x = 35 - 20 = 15$ years

Hence, Elder's age is 20 years

Question 65 :

Simplify the following expression: $(3/2 \times 1/6) + (5/3 \times 7/2) - (13/4 \times 4/3) = ?$

Difficulty : Moderate

Average Time : 65 Seconds

Options :

1. 12/21

21/12

3. 36/21

4. 41/12

Solution :

The correct answer is **option 2** i.e. **21/12**

Application
$((3/2 \times 1/6) + (5/3 \times 7/2) - (13/4 \times 4/3)$ $= (1/4) + (35/6) - (13/3)$ LCM of 4, 6, and 3 = 12 $= (3 + 70 - 52)/12$ $= 21/12$

Question 66 :
Find the LCM of 96, 144 and 150.

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

Options :

1. 1440

2. 3600

3. 7200

4. 2400

Solution :

The correct answer is option 3 i.e. 7200

Understanding/Application

$$96 = 2^5 \times 3$$
$$144 = 2^4 \times 3^2$$
$$150 = 2 \times 3 \times 5^2$$
LCM of 96, 144 and 150 = $2^5 \times 3^2 \times 5^2 = 7200$

Question 67 :

What is the total earning after 2 years from Rs 18,750 on variable compound interest if the rate of interest for the first year is 4% and for the second, it is 8%?

Difficulty : Moderate

Average Time : 48 Seconds

Options :

1. Rs 1,740
2. Rs 1,760
3. Rs 1,670
4. Rs 2,310

Solution :

The correct answer is option 4 i.e. Rs 2310

Understanding/Application
P = 18750
ROI = 4% + 8% (CI)
Net Percent = 4% + 8% + 8% of 4% = 12% + 32/100%
= (1232/100)%
Intrest amount = (18750/100)(1232/100) = Rs 2310

Question 68 :

A clock shows 2 am now Find the total rotation of the minute hand, in degrees, of the clock when it will show 9 pm on the same night?

Difficulty : Moderate

Average Time : 44 Seconds

Options :

   8600°

2. 6840°

3. 6470°

4. 5930°

Solution :

The correct answer is option 2 i.e. 6840°

Understanding/Application
2am to 9 pm = 19 hours
1 hours = 360°
So, Moving minute hand in 19 hours = 360° × 19 = 6840°

Question 69 :

A flight covering a distance of 1200 km could reduce the travel time by 30 minutes, due to an additive tailwind that increases the average speed by 120 km/hr. What was the duration of the flight in hours?

Difficulty : Moderate

Average Time : 46 Seconds

Options :

1. 2.2 hours

2. 1.9 hours

3. 1.8 hours

4. 2 hours

Solution :

The correct answer is option 4 i.e. 2 hours

Let average speed of flight = x km/hr

A/Q,

(1200/x) - (30/60) = {1200/(x+120)}

1200{(1/x) - (1/x+120)} = 1/2

120/{x(x+120)} = 1/2400

$x^2 + 120x - 288000 = 0$

$x = 480$ km/hr

after speed increases avg speed of flight = 480 + 120 = 600 km/hr

time to travel the distance = 1200/600 = 2 hr

Question 70 :
Express in meters the sum of 0.5035 km, 332.9 cm and 1771mm:

Difficulty : Moderate

Average Time : 45 Seconds

Options :

1. 500
2. 510
3. 508.6
4. 58.6

Solution :

The correct answer is option 3 i.e. 508.6 m

Understanding/Application

0.5035 km, 332.9 cm and 1771mm:

1 km = 1000 m

1 m = 100 cm

1 m = 1000 mm

So,

0.5035 km = 0.5035 × 1000 = 503.5 m

332.9 cm = 332.9/100 = 3.329 m

1771 mm = 1771/1000 = 1.771 m

Now,

503.5 + 3.329 + 1.771 = 508.6 m

Question 71 :

The length and breadth of a rectangular field are in the ratio 3 : 2. If the area of the field is 1,350 m2, then the cost of fencing it at rs 30/m will be:

Difficulty : Moderate

Average Time : 50 Seconds

Options :

1. Rs 5,680

2. Rs 4,500

3. Rs 4,000

4. Rs 5,240

Solution :

The correct answer is option 2 i.e. Rs 4500

Understanding/Application

Let,

L = 3x

B = 2x

$6x^2 = 1350$

x = 15 m

So,

Length = 3(15) = 45 m

Breadth = 2(15) = 30 m

Perimeter of rectangle = 2(L + B) = 2 (45 + 30)

= 2(75) = 150 m

Rate = 30/m

Total cost = Rs (150 × 30) = Rs 4500

Question 72 :

Srinivas works and earns Rs14,500 per month, out of which he saves only 20% and spends the remaining amount on other deeds. Find the amount spent.

Difficulty : Moderate

Average Time : 53 Seconds

Options :

1. Rs 11,500

2. Rs 11,400

3. Rs 11,000

4. Rs 11,600

Solution :

The correct answer is **option 4** i.e. **Rs 11600**

Application

Total amount = 14500 = 100%

Save = 20% (Given)

spends = (100 - 20)% = 80%

Spend amount = 80% of 14500

= (14500/100)80 = Rs 11600

Question 73 :

3.8/1.25, written as a pure decimal, will be?

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

Options :

1. 3.14

2. 3.04

3. 3.06

4. 3.08

Solution :

The correct answer is option 2 i.e. 3.04

On dividing 3.8 by 1.25 = 3.8/1.25 = 380/125 = 3.04

Question 74 :

Write four more rational numbers in the following pattern

Difficulty : Moderate   **Average Time : 29 Seconds**

Options :

1. $\dfrac{5}{6}, \dfrac{7}{8}, \dfrac{9}{10}, \dfrac{11}{12}$

2. $\dfrac{5}{30}, \dfrac{6}{36}, \dfrac{7}{42}, \dfrac{8}{48}$

3. $\dfrac{5}{-6}, \dfrac{6}{-12}, \dfrac{7}{-18}, \dfrac{8}{-24}$

$$\frac{5}{-30}, \frac{6}{-30}, \frac{7}{-42}, \frac{8}{-48}$$

Solution :

The correct answer is option 4

simplified value of the given rational number is

$$-\frac{1}{6}, -\frac{2}{12}, -\frac{3}{18}, -\frac{4}{24}, \ldots\ldots\ldots\ldots = -1/6$$

from option, we observe that only option 4 has simplified value = - 1/6

$$\frac{5}{-30}, \frac{6}{-30}, \frac{7}{-42}, \frac{8}{-48} = -1/6$$

Question 75 :
Simplify the following expression:

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

Options :

1. -9/2

2. -13/2

3. 13/2

4. 9/2

Solution :

The correct answer is option 2 i.e. $-\frac{13}{2}$

$$\left(\frac{3}{11} \times \frac{33}{6}\right) - \left(\frac{9}{4} \times \frac{12}{3}\right) + \left(\frac{5}{11} \times \frac{22}{10}\right)$$

$$= \frac{3}{2} - \frac{9}{1} + 1 = \frac{3+2}{2} - \frac{9}{1} = -\frac{13}{2}$$

Question 76 :
Simplify the following expression:

Difficulty : Moderate   **Average Time : 38 Seconds**

Options :

1. $\dfrac{12}{21}$

2. $\dfrac{21}{12}$

3. $\dfrac{36}{21}$

4. $\dfrac{41}{12}$

Solution :

The correct answer is option 2 i.e. $\dfrac{21}{12}$

$$\left(\frac{3}{2}\times\frac{1}{6}\right)+\left(\frac{5}{3}\times\frac{7}{2}\right)-\left(\frac{13}{4}\times\frac{4}{3}\right)$$

$$=\frac{3}{12}+\frac{35}{6}-\frac{13}{3}=\frac{3+70-52}{12}=\frac{21}{12}=\frac{7}{4}$$

Question 77 :

Read the given statement(s) and conclusions carefully and select which of the conclusions logically follow(s) from the statement(s). Statements: I. All gadgets are electronics. II. All electronics are chips. Conclusions: 1. All gadgets are chips. 2. Some chips are electronics.

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

Options :

1. Conclusion 1 alone follows.

2. Both 1 and 2 follows.

3. Conclusion 2 alone follows.

4. Neither 1 nor 2 follows.

Solution :

The correct answer is option **2 i.e. Both 1 and 2 follows.**

Understanding	Application
According to the Statement, the possible diagram is A B	Conclusions: 1. All gadgets are chips = **True** 2. Some chips are electronics = **True** Hence, both 1 and 2 follows is the correct answer.

Question 78 :

If in a certain code BRIM is written as AQHL, how would EDGE be written in that code?

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

Options :

1. FDCD
2. CDCF
3. DCGH
4. DCFD

Solution :

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

1	2	3	4	5	6	7	8	9	10	11	12	13
A	B	C	D	E	F	G	H	I	J	K	L	M
Z	Y	X	W	V	U	T	S	R	Q	P	O	N
26	25	24	23	22	21	20	19	18	17	16	15	14

Understanding	Application
In a certain code, BRIM is written as AQHL B - 1 = A R - 1 = Q I - 1 = H M - 1 = L	A similar pattern is used for EDGE. E - 1 = D D - 1 = C G - 1 = F E - 1 = D Hence, EDGE be written in that code is **DCFD.**

Question 79 :

Choose the bird which does not belong to the group.

Difficulty : Moderate

Average Time : 115 Seconds

Options :

1. Peacock

2. Eagle

3. Ostrich

4. Hen

Solution :

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

Understanding	Application
Peacock, Ostrich and, Hen are a preys animal but Eagle is a predator.	Hence, Eagle is an odd one out.

Question 80 :

Find the next figure for the given series:

Difficulty : Moderate
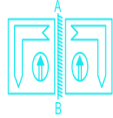
Average Time : 45 Seconds

Options :

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

Solution :

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

Understanding	Application
In the problem figure, the 2nd figure is the figure which is embedded in the 1st figure in a dotted line. In the same way, a dotted figure which is embedded in the 3rd figure is the answer figure for the 4th figure.	 Hence, option **4 i.e. B** is the correct answer.

Question 81 :

Find the ODD one out:

Difficulty : Moderate

Average Time : 62 Seconds

Options :

1.

2.

3.

4.
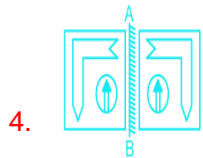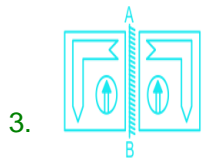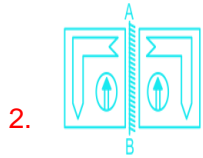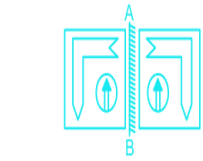
Solution :
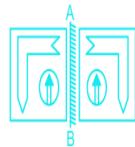
The correct answer is option **3 i.e.**

Understanding
All figures except figure 3 are founded in 90°.   Hence, option **3 i.e.** is the ODD   one out.
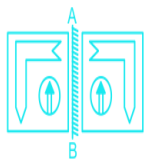
Question 82 :

If + means ×, × means , ÷ means +, and means ÷,then what is the value of 62 2 ÷ 8 + 15 × 4 + 6 ?

Difficulty : Moderate   **Average Time : 79 Seconds**

Options :

1. 130
2. 127
3. 120
4. 128

Solution :

The correct answer is option **2 i.e. 127.**

Understanding

+	x
x	-
÷	+
-	÷

Equation is 62 2 ÷ 8 + 15 × 4 + 6

After changing the sign, the equation is

62 ÷ 2 + 8 x 15 - 4 x 6 = 31 + 120 - 24

 151 - 24

127

Hence, option **2 i.e. 127** is the correct answer.

Question 83 :

Varun is playing caroms with Samarth sitting in standard caroms seating arrangement. If Varun is facing South-West direction. What is the direction of his opponent Samarth?

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

Options :

1. North-West
2. South-East

North-East

4. South -Wes

Solution :

The correct answer is option **3 i.e. North-East**

Understanding
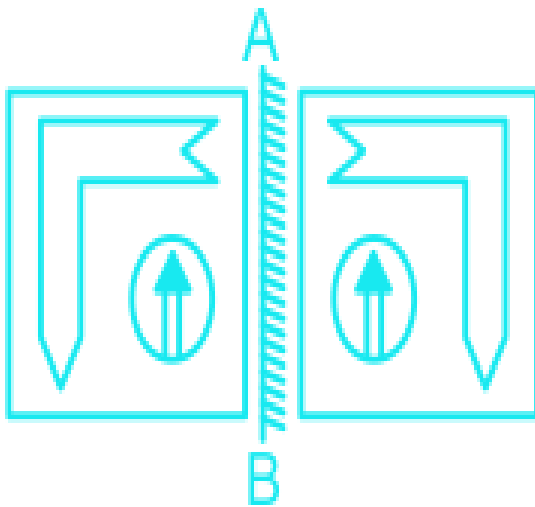
From the above figure, we can see that if Varun is facing South-West direction then his opponent Samarth is facing in **North-East direction.**

Question 84 :

Find the odd one out of the given figures.

Difficulty : Moderate   Average Time : 51 Seconds

Options :

1. D

2. C

3. B

A

Solution :

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

Understanding
All figure is the mirror image except figure D. Hence, option **1 i.e.** D is the correct answer.

Question 85 :

Read the given statement and choose which argument is strong. Statement: Should the Indian government stop spending huge amounts of money on organizing Commonwealth Games in the country? Argument: 1. Yes, money can be used for the development of poor people. 2. No, sports play a significant role in exposing talent and helping athletes gain international exposure.

Difficulty : Moderate

Average Time : 62 Seconds

Options :

1. Only argument 2 is strong

2. Either argument 1 or 2 is strong

3. Only argument 1 is strong

4. Neither argument 1 nor 2 is strong

Solution :

The correct answer is option **1 i.e.** Only argument 2 is strong

Understanding

Statement: Should the Indian government stop spending huge amounts of money on organizing Commonwealth Games in the country.

Argument 1 - Yes, money can be used for the development of poor people is not a strong argument.

Argument2 - No, sports play a significant role in exposing talent, and helping athletes gain international exposure is a strong argument.

Hence, option **1 i.e.** Only argument 2 is strong is the correct answer.

Question 86 :
Find the next letter in the series: OV, QU, ST, US, ...?

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

Options :
1. OM
2. OM
3. WE
4. WR

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

1	2	3	4	5	6	7	8	9	10	11	12	13
A	B	C	D	E	F	G	H	I	J	K	L	M
Z	Y	X	W	V	U	T	S	R	Q	P	O	N
26	25	24	23	22	21	20	19	18	17	16	15	14

Understanding	Application
O + 2 = Q, Q + 2 = S, S + 2 = U, **U + 2 = W** V - 1 = U, U - 1 = T, T - 1 = S, **S - 1 = R**	Hence, the complete series is OV, QU, ST, US, **WR**

Question 87 :

Avant points at a picture and say "She is the second daughter of my father's elder brother". Avant and the girl in the photograph are ....

Difficulty : Moderate   **Average Time : 109 Seconds**

Options :

1. brothers

2. friends

3. siblings

4. cousins

Solution :

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

Understanding	Application
	From this diagram, we can say that Avant and the girl in the photograph are **cousins.**

Question 88 :

Select the option figure that will complete the series of question figures.

Difficulty : Moderate   **Average Time : 51 Seconds**

Options :

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

Solution :

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

Understanding	Application
	The circular figure in which a small triangle is embedded inside the rectangular figure is rotating in a clockwise manner. Hence, the figure in option B is the correct answer.

Question 89 :

Four options have been given below of which three are alike in some way and one is different. Choose the odd one out.

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

Options :

1. IISC Bengaluru
2. Kotak Mahindra bank
3. IIT Hyderabad
4. NIT Calicut

Solution :

The correct answer is option **2 i.e.** Kotak Mahindra bank

Understanding	Application
IISC Bengaluru, IIT Hyderabad, and, NIT Calicut are technical institutes.	Kotak Mahindra Bank is a bank. Hence, Kotak Mahindra bank is the odd one out.

Question 90 :

Each question given below consists of a statement, followed by two arguments numbered I and II. You have to decide which of the arguments is a 'strong' argument. Statement: Should there be a dress code for college students? Arguments: I. Yes, a dress code will bring unity and eliminate discrimination. II. No, the dress code takes away the opportunity to showcase students' style sense.

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

Options :

1. Neither I nor II is strong

2. Both I and II are strong

3. Only argument I is strong

4. Only argument II is strong

Solution :

The correct answer is option **3 i.e.** Only argument I is strong

Understanding	Application

The statement is Should there be a dress code for college students. Arguments I. Yes, a dress code will bring unity and eliminate discrimination is **true** because if all college students wear a similar dress, there will be no discrimination. Arguments 2 is not true.	Hence, the Only argument I is strong.

Question 91 :
Find the odd one out?

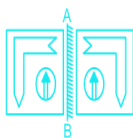**Difficulty : Moderate**   **Average Time : 59 Seconds**

Options :

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

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

Understanding
The figure in option D is the odd one out because the star is face to face.

Question 92 :
Select the term that relates to the third term in the same way as the second term relates to the first term. Blogger : Writer ::

Illustrator : ....?

Difficulty : Moderate

Average Time : 52 Seconds

Options :

1. Artist
2. Singer
3. Doctor
4. Cook

Solution :

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

Understanding	Application
Bloggers and writers has same types of works. Both write blogs, articles, and, novels.	Similarly, Illustrator and artist deal with similar types of work of drawing the pictures for magazines, books, and advertising. Hence, option **1 i.e.** Artist is the correct answer.

Question 93 :

Find the number of squares in the figure:

Difficulty : Moderate

Average Time : 54 Seconds

Options :

1. 27
2. 25
3. 24
4. 26

Solution :

The correct answer is option **3 i.e.** 24

Understanding
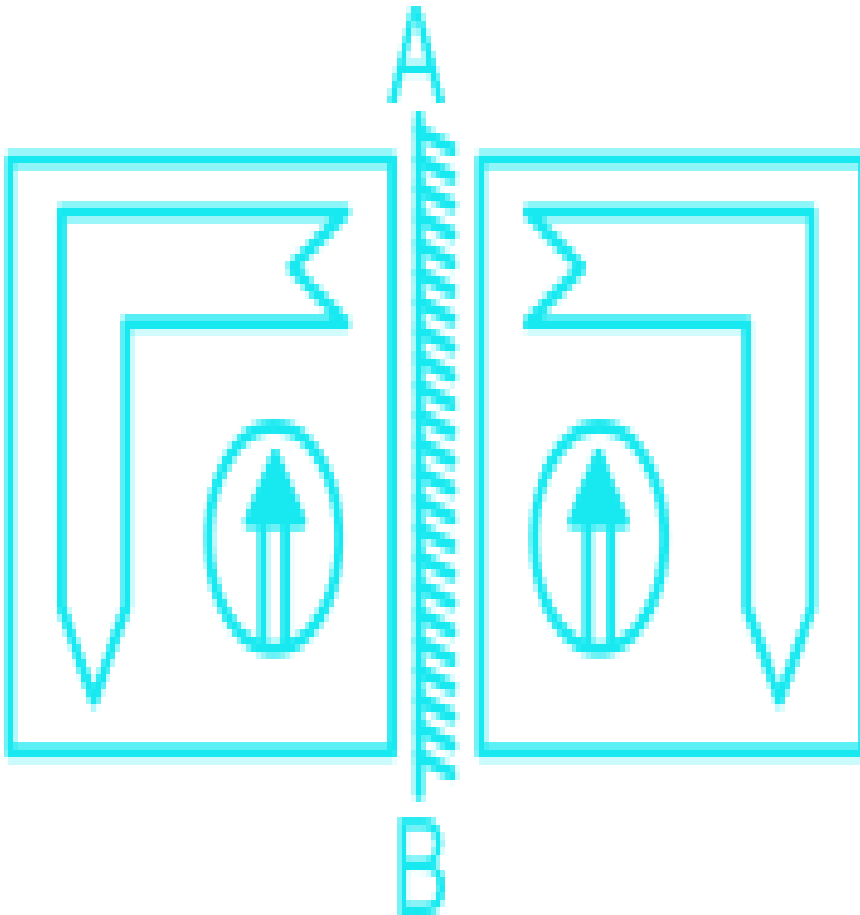
From the above figure, we can see that the total number of squares in the figure is 24.

Hence, option **3 i.e.** 24 is the correct answer.

Question 94 :
Consider the following question followed by the statements and decide which of the statements is sufficient to answer the question. Question: 8 trolleys in a supermarket are used to load and unload commodities. All of the trolleys have been filled with oil cans of two different sizes and shapes. How many cans are loaded in the trolleys in total? Statements: 1. The

shape of 8 cans is such that in one trolley only 2 can fit. 2. The rest of the trolleys are filled with 4 oil cans each.

Difficulty : Moderate

Average Time : 70 Seconds

Options :

1. Statement 1 alone is sufficient

2. Neither statement 1 nor 2 is sufficient

3. Statement 1 and 2 together are sufficient

4. Statement 2 alone is sufficient

Solution :

The correct answer is option **3** **i.e. Statement 1 and 2 together are sufficient**

| Understanding	Application
From statement 1 The shape of 8 cans is such that in one trolley only 2 can fit. It means 8 cans come in 8/2 = 4 trolleys Remaining trolleys = 8 - 4 = 4 trolleys From statement 2 The rest of the trolleys are filled with 4 oil cans each. It means the number of can comes in rest trolleys = 4 x 4 = 16.	So cans are loaded in the trolleys in total = 16 + 8 = 24 Hence, option **3** **i.e. Statement 1 and 2 together are sufficient** is the correct answer.

Question 95 :

Choose the best suitable Venn diagram for the following words: "Amphibians, Alligator, Tortoise"

Difficulty : Moderate

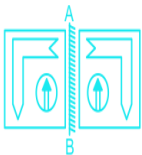**Average Time : 72 Seconds**

Options :

1.

2.

3.

4.
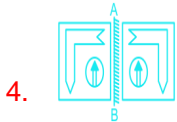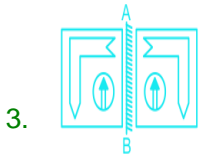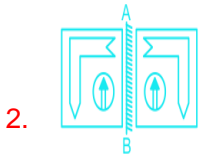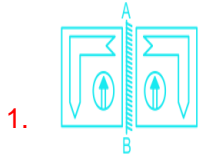
Solution :
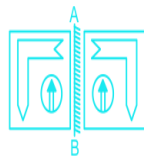
The correct answer is option **3 i.e.**

Understanding
Both Alligator and Tortoise are Amphibians.
Hence, the above figure is the possible Venn diagram for the following words.

Question 96 :

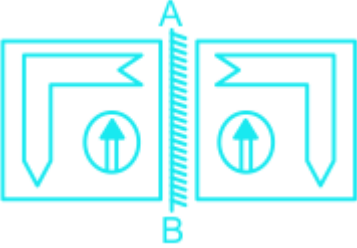The mirror image of the above figure is

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

Options :

1. C

2. D

3. B

4. A

Solution :

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

Understanding	Application
The above figure is the mirror image of the problem figure.	Hence, option **1 i.e.** C is the correct answer.

Question 97 :
Read the given statement(s) and conclusions carefully and select which of the conclusions logically follow(s) from the statement(s). Is China spending on defense is justified? Argument: 1. Yes, the safety of the country is the top priority 2. No, as peace in the region is established hence money should be spent on development.

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

Options :

1. Only argument 1 is strong

2. Neither argument 1 nor 2 is strong

Only argument 2 is strong

4. Both argument 1 and 2 is strong

Solution :

The correct answer is option **1 i.e.** Only argument 1 is strong

Understanding	Application
statement - Is China spending on defense is justified? Argument 1- Yes, the safety of the country is the top priority is **a strong argument** because if a country is secured than only development is possible. So, the first priority of every country is safety. Argument 2 - No, as peace in the region is established hence money should be spent on development is **not strong.**	Hence, option **1 i.e.** Only argument 1 is strong

Question 98 :

Read the given statement(s) and conclusions carefully and select which of the conclusions logically follow(s) from the statement(s). Statement: Child labour is a punishable crime Conclusions: I. The poverty of parents and their inability to send their children to school is the reason behind child labour II. Government has issued a ban on child labour

Difficulty : Moderate

Average Time : 80 Seconds

Options :

1. Only conclusion II follows

2. Only conclusion I follows

3. Both the conclusions follow

4. No conclusion follows

Solution :

The correct answer is option **1 i.e.** Only conclusion II follows

Understanding
The statement is Child labour is a punishable crime. **Conclusion 1**: The poverty of parents and their inability to send their children to school is the reason behind child labour is not completely true. The inability of education is not the reason behind child labour. According to the right to free and compulsory education act, which describes the modalities of the importance of **free and compulsory education** for children between the age of 6 to 14 years in India under Article 21A. Hence, conclusion 1 doesn't satisfy completely. **Conclusion 2:** Government has issued a ban on child labour. According to the Child Labour Act, 1986 no child below the 14 years shall be employed to work. **Hence, conclusion II follows.**

Question 99 :
Select the options figure that will complete the series of question figures.

Difficulty : Moderate   Average Time : 77 Seconds

Options :

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

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

Question 100 :
From the options figures, select the one that is related to the question figure c in the same way as question figure b is related to the question figure a.

Difficulty : Moderate   Average Time : 35 Seconds

Options :

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

Solution :

The correct answer is option 2 i.e. 1

The diagram 'a' is rotated left and the point is inside the box which forms diagram 'b'

similarly, we can clearly see in answer '1' diagram 'c' is left rotated and the point is outside.

Rrb Group D CBT - 1 Previous Year Question Paper Analysis

The analysis of Rrb Group D CBT - 1 Previous Year Question Paper held on 2018-10-29 in the Morning exam is as follows:

1. 100 questions were moderate.
2. The safe score is 77 marks.
3. 100 questions were asked from CBT -1 and 100 questions were asked from CBT -1
4. 2 questions should have been skipped if you were short of time.

Rrb Group D CBT - 1 Previous Year Question Paper Topic Wise Weightage

CBT -1

Rrb Group D CBT - 1 Previous Year Question Paper Tips and Tricks

TIPS & TRICKS

1. Try to solve Rrb Group D CBT - 1 Previous Year Question Paper without taking any help from the solutions.
2. Rrb Group D CBT - 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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Further Guidance on Rrb Group D CBT - 1 Previous Year Question Paper

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About Neetu Mam

Neetu Mam is primarily passionate for the English language and teaching from the last 20 years however for the Rrb Group D CBT - 1 Previous Year Question Paper. She has guided her team to provide the best explanation for the question.