

# Rrb Ntpc CBT - 1 Previous Year Question Paper Overview

Here, you can solve all the questions asked in Rrb Ntpc CBT - 1 Previous Year Question Paper on 2016-04-16 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 Ntpc CBT - 1 exam. There are 100 questions in the exam and 90 minutes are provided for the Rrb Ntpc CBT - 1 exam. The Cutoff of the exam was 68 marks hence you should try to score at least 78 marks.

# Rrb Ntpc CBT - 1 Previous Year Question Paper : Questions and Solutions

## Question 1 :

Which State in India is the highest producer of raw silk?

Difficulty : Moderate

Average Time : 41 Seconds

## Options :

1. Kerala
2. Andhra Pradesh
3. Karnataka
4. Maharashtra

## Solution :

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

- Indian State "**Karnataka**" is the highest producer of raw silk.
- Silk in the Indian subcontinent's luxury good.
- Around 8,200 metric tonnes of silk every year, which is about one-third of the total silk production in India.
- India is the second-largest producer of silk in the world after **China**.
- India produces all four varieties of silk – mulberry, muga, Tropical Tasar, Oak Tasar, and eri.
- Its production depends on various factors like the weather conditions, land available to cultivate mulberry plants, and breeding of around 10,000 silkworms in one-acre of land, for better yield.
- The water available for the rearing of silkworms is soft, free from iron, and alkaline salts.

## Question 2 :

Page No: 1

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Which Indian state declared as a 'complete Digital State'?

Difficulty : Moderate

Average Time : 65 Seconds

Options :

1. Tamil Nadu
2. Kerala
3. Maharashtra
4. Karnataka

Solution :

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

- Kerala is the first state in the country to be declared as a 'complete Digital State'.
- It was declared by then President Pranab Mukherjee.
- High internet penetration, mobile phone density over 3.1 crores out of 3.3 crore population, high e-literacy level (75%), highest digital banking rate, setting up of two state-of-the-art government data centers and a state-wide area network connecting over 3,000 government offices contributed to the making of Kerala as the first complete digital state.
- Kerala is also the **first e-literate state** largely through its Akshaya and IT School projects which were launched in 2002.
- It is also the first state to complete the National Optical Fibre Network project.

Question 3 :

Saina Nehwal is associated with which sport?

Difficulty : Moderate

Average Time : 70 Seconds

Options :

1. Tennis
2. Cricket
3. Badminton
4. Gymnastics

Solution :

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

Saina Nehwal is a badminton player.

- She was born on 17 March 1990 Hisar, Haryana, India.
- She has won over 24 international titles, which includes eleven Superseries titles.
- In 2015, she was able to attain the world no. 1 ranking, and becoming the only female player from India and overall the second Indian player after Prakash Padukone to achieve this feat.

#### Question 4 :

In Which country did the Hotaki dynasty flourish?

Difficulty : Moderate

Average Time : 47 Seconds

#### Options :

1. Sri Lanka
2. China
3. Nepal
4. Afghanistan

#### Solution :

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

- The Hotaki dynasty was an Afghan monarchy of the Ghilji Pashtuns, founded in 1709 by **Mirwais Hotak at Kandahar, Afghanistan**.
- Afghanistan officially the Islamic Republic of Afghanistan is a landlocked sovereign state forming part of South Asia, Central Asia, and to some extent Western Asia. The political history of the modern state of Afghanistan begins in 1709 when the Hotaki dynasty was established.
- The last king of the Hotaki dynasty was **Hussain Hotaki** in Kandahar until he was defeated by **Nader Shah** in **1738**.

#### Question 5 :

Where in the World can we find the Nobel museum?

Difficulty : Moderate

Average Time : 57 Seconds

#### Options :

1. Sweden
2. Stockholm
3. Denmark
4. London

**Solution :**

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

- The Nobel Prize Museum is located in the former Stock Exchange, Gamla Stan, the old town in central **Stockholm, Sweden**.
- The Nobel Prize Museum illustrates a century of creativity, where visitors can follow the changes of the 20th century through the Nobel Prize and the Nobel Laureates.
- The Nobel Prize Museum's aim is to spread knowledge and create interest and discussion around the natural sciences and culture through creative learning, exhibition techniques, and modern technology.

**Question 6 :**

How many bones does a human baby have?

**Difficulty : Moderate**

**Average Time : 53 Seconds**

**Options :**

1. 206
2. 234
3. 270
4. 354

**Solution :**

The correct answer is option 3 i.e. **270**.

- A human baby has **270** bones at birth.
- This **270** bone decreases to around **206** bones by adulthood after some bones get fused together.
- The human skeleton can be divided into the **axial skeleton** and the **appendicular skeleton**.
- The axial skeleton is formed by the vertebral column, the rib cage, the skull, and other associated bones.
- The appendicular skeleton is formed by the shoulder girdle, the pelvic girdle, and the bones of the upper and lower limbs. This skeleton attached to the axial skeleton.
- The human skeleton performs six major functions - support, movement, protection, production of blood cells, storage of minerals, and endocrine regulation.

**Question 7 :**

Who received the Dinanath Mangeshkar award for 2015?



Difficulty : Moderate

Average Time : 63 Seconds

Options :

1. Sanjay Leela Bhansali
2. Ranveer Kapoor
3. Anil Kapoor
4. Amir Khan

Solution :

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

- **Anil Kapoor** received the Dinanath Mangeshkar award for **2015**.
- Bollywood actor Anil Kapoor was presented the award by noted historian and writer Babasaheb Purandare.
- Master Dinanath Mangeshkar was instituted in the memory of Dinanath Mangeshkar in 1999, who was the father of Lata Mangeshkar.
- From then it is awarded annually to persons for their outstanding contributions to music and movies.
- The award aims to encourage legends from the fields of music, drama, art, and social work.
- The prestigious Master Deenanath Mangeshkar **Award 2019** was awarded to National Award-winning filmmaker **Madhur Bhandarkar**, popular scriptwriter Salim Khan and dancing diva **Helen**.

Question 8 :

Centigrade, is a unit of measurement of temperature named after whom?

Difficulty : Moderate

Average Time : 64 Seconds

Options :

1. Kelvin
2. Jean-Pierre Christin
3. Marten Stromer
4. Anders Celsius

Solution :

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

- The degree Celsius is known as a specific temperature on the Celsius scale or a unit to indicate a difference between two temperatures or an uncertainty.
- It is named after the **Swedish astronomer Anders Celsius** who developed a similar temperature scale.



Centigrade is a unit of measurement to measure temperature.

**Question 9 :**

Which among the followings planets is orange in colour with white bands on it?

Difficulty : Moderate

Average Time : 50 Seconds

**Options :**

1. Mars
2. Saturn
3. Jupiter
4. Venus

**Solution :**

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

- Jupiter planet is orange in colour with white bands on it
- It is famous for its banded appearance, consisting of orange and brown intermixed with bands of white.
- This is due to its composition and the weather patterns that are common to the planet.
- The color patterns of orange and white are due to the upwelling of compounds that change color when they are exposed to ultraviolet light from the Sun.
- These colorful compounds are known as chromophores, and which are likely made up of sulfur, phosphorus, or hydrocarbons are formed when rising convection cells form crystallizing ammonia that masks out these lower clouds from view.

**Question 10 :**

Which bacterium is used to turn the milk to curd?

Difficulty : Moderate

Average Time : 62 Seconds

**Options :**

1. Streptomyces
2. Vibrio
3. Lactobacillus
4. Spirilla

**Solution :**

Page No: 6

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

- **Lactobacillus Bacteria** that present in **Milk** that changes **Milk to Curd**.
- Lactobacillus Bacteria is a species of gram-positive **bacteria** in the genus **Lactobacillus**.
- It produces lactic acid and reducing the pH of the **milk**.
- It imparts the sour taste to curd.
- These are "friendly" bacteria that normally live in our digestive, urinary, and genital systems without causing disease.

**Question 11 :**

What does SPM in the environment mean?

Difficulty : Moderate

Average Time : 55 Seconds

**Options :**

1. Suspended Pollution Mark
2. Suspended Particulate Matter
3. Suspended Particle Mode
4. Suspended Particle Management

**Solution :**

The correct answer is option 2 i.e. **Suspended Particulate Matter**.

- Suspended particulate matter (**SPM**) are finely divided solids or liquids Parts that may be dispersed through the air from combustion processes, industrial activities or natural sources.
- Mose common example of SPM is dust, fumes, mist, and smoke.
- SPM produced by the condensation of metals or organic compounds that are vaporized in high-temperature combustion processes.
- It can also be produced by condensation of gases that have been converted in atmospheric reactions to low-vapour-pressure substances.

**Question 12 :**

Where did Muhammad Bin Tughlaq shift his capital to from Delhi?

Difficulty : Moderate

Average Time : 56 Seconds

**Options :**

1. Daulatabad
2. Aurangabad

Allahabad

4. Shaharanpur

### Solution :

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

- Muhammad Bin Tughlaq shifted his capital from Delhi to Daulatabad In 1327.
- Muhammad bin Tughluq was the Sultan of Delhi from 1325 to 1351.
- He was the eldest son of Ghiyas -Ud -Din -Tughlaq, who was the founder of the Tughluq dynasty.
- He shifted his capital In order to rule the whole Indian Sub-continent.
- In the absence of the sultan, Delhi was now exposed to renewed attacks by the Mongols. Realizing his folly, Muhammad bin Tughlaq shifted his capital back to Delhi after 2 years.
- He was also known as the Mad King of India.

### Question 13 :

The tallest bridge in the world Millau Viaduct has been constructed over the river \_\_\_\_\_.

Difficulty : Moderate

Average Time : 60 Seconds

### Options :

1. Seine
2. Tarn
3. Durance
4. Loir

### Solution :

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

- Millau Viaduct is a cable-stayed bridge.
- It is located in **Southern France** over a valley of the River **Tarn** near Millau.
- It is the tallest bridge in the world.
- This bridge broke several records. It has the highest pylons in the world (245 meters and 221 meters), the highest bridge tower in the world (343 meters), and the highest road bridge deck in Europe (270 meters).

### More Info:-

France	
Capital	Paris





Currencies	Euro, CFP franc
President	Emmanuel Macron

**Question 14 :**

Who made the first chocolate bar?

Difficulty : Moderate

Average Time : 74 Seconds

**Options :**

1. Nestle
2. The Hershey Company
3. Joseph Fry & Sons
4. Pearson's

**Solution :**

The correct answer is option 3 i.e. **Joseph Fry & Sons.**

- In 1847, the first chocolate bar was made in Britain by Joseph Fry and his son.
- They pressed a paste made of cocoa powder and sugar into a bar shape the very first edible solid chocolate bar.
- Two years later, John Cadbury introduced his own brand of chocolate bars.
- He began selling his Chocolate Cream in 1866 as the first mass-produced and easily available candy bar.

**Question 15 :**

Who invented the pendulum clock?

Difficulty : Moderate

Average Time : 51 Seconds

**Options :**

1. Galileo Galilei
2. Thomas Alva Edison
3. Frederick Jones
4. Davidson

**Solution :**

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



Galileo conceived of an isochronous **pendulum clock** in 1637.

- But unfortunately, he never went on to complete it.
- Fourteen years after Galileo's death In 1656, **Christiaan Huygens** used a pendulum for a weight-driven clock with a crown wheel escapement. Thereby he inventing the first pendulum clock.

### Question 16 :

Which is the official language for Android development?

Difficulty : Moderate

Average Time : 48 Seconds

### Options :

1. Java
2. COBOL
3. FORTAON
4. Ada

### Solution :

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

- Java is the official language of Android development and is supported by Android Studio.
- Java was originally developed by **James Gosling** at Sun Microsystems and released in 1995 as a core component of Sun Microsystems' Java platform.
- Java is a widely-used programming language expressly designed for use in the distributed environment of the internet.
- It is the most popular programming language for Android smartphone applications and is also among the most favored for the development of edge devices and the internet of things.

### Question 17 :

Who invented the mouse of the computer?

Difficulty : Moderate

Average Time : 54 Seconds

### Options :

1. John Backus
2. Charles Babbage
3. Douglas Engelbart

Simon Colton

### Solution :

The correct answer is option 3 i.e., **Douglas Engelbart**.

- The computer mouse was invented and developed by Douglas Engelbart, with the assistance of Bill English, during 1960.
- It was patented on November 17, 1970.
- Douglas Engelbart was a Director of the Augmentation Research Center at Stanford Research Institute, in Menlo Park, California.

### Question 18 :

Who is the Railway Minister who presented the 2016 Rail Budget?

Difficulty : Moderate

Average Time : 44 Seconds

### Options :

1. Suresh Prabhu
2. Arun Jaitley
3. Manoj Sinha
4. Jayant Sinha

### Solution :

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

- **Suresh Prabhu** was the Railway Minister who presented the **2016** Rail Budget.
- He was the Union Railway Minister of India from **November 2014 to September 2017**.
- Rail Budget was separated from the general budget in **1924**.
- In year 2017-18, the Government has decided to merge Rail Budget with the Union Budget from budget.
- **Piyush Goyal** of the Bharatiya Janata Party is the current Minister of Railways, serving since 3 September 2017.

### Question 19 :

Which among the following is the brain of the computer?

Difficulty : Moderate

Average Time : 55 Seconds

### Options :

1. Software
2. Hardware

## CPU

### 4. Monitor

#### Solution :

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

- The brain of a computer is CPU because all the inputs from the devices come to it and it processes the information and sends the output to the device and everything is stored it which helps on the functioning of the Computer.
- Its full form is the central processing unit.
- It consists of a chip containing millions of tiny transistors.
- CPU's job to perform the calculations necessary to make the computer work -- the transistors in the CPU manipulate the data.
- There are 3 main components of the CPU.

1) Arithmetic and logic unit (ALU)

2) Control Unit (CU)

3) Registers

#### Question 20 :

Who is the current Chief Election Commissioner of India?

Difficulty : Moderate

Average Time : 67 Seconds

#### Options :

1. **Syed Nasim Ahmed Zaidi**
2. Navin Chawla
3. N. Gopalaswami
4. A. K. Jyoti

#### Solution :

The correct answer is option 1 i.e. Syed Nasim Ahmed Zaidi.

- **Syed Nasim Ahmad Zaidi** served as the **20th** Chief Election Commissioner of India.
- His incumbent period was **7 August 2012 to 18 April 2015**.



The Chief Election Commissioner is the heads the Election Commission of India which is a body constitutionally empowered to conduct free and fair elections to the national and state legislatures and of President and Vice-President.

- **Sunil Arora** is the current **23rd** Chief Election Commissioner and the two Election Commissioners are **Ashok Lavasa and Sushil Chandra**.

### Question 21 :

How many bio-geographical zones are there in India?

Difficulty : Moderate

Average Time : 58 Seconds

### Options :

1. 2
2. 4
3. 6
4. 10

### Solution :

The correct answer is option 4 i.e. **10**.

- The bio-geographical province is an ecosystemic or biotic subdivision of the realm.
- There are **10** bio-geographical zones in India.
- India is divided into **25** bio-geographic provinces.

- 1) Trans Himalayan zone.
- 2) Himalayan zone
- 3) Desert zone.
- 4) Semiarid zone.
- 5) Western ghat zone.
- 6) Deccan plateau zone.
- 7) Gangetic plain zone.
- 8) Northeast zone.
- 9) Coastal zone.
- 10) Islands

### Question 22 :

Where did Rani Lakshmi Bai die fighting the British?



Difficulty : Moderate

Average Time : 64 Seconds

Options :

1. Varanasi
2. Gwalior
3. Morar
4. Jhansi

Solution :

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

- Rani Lakshmi bai of Jhansi was one of the most important figures of India's First War of Independence.
- Lakshmi bai was born on November 19th, 1828 in Varanasi to Maharashtrian parents.
- His parents was Morapant Tambe and Bhagirath Bai.
- Lakshmibai was initially named Manikarnika and affectionately called Manu by her parents.
- After a fierce war, when the British army entered Jhansi, Rani Lakshmibai, tied her son Damodar Rao to her back and fought bravely using two swords in both her hands.
- She died while fighting against the British in Gwalior On June 18th, 1858.

Question 23 :

Which is the most powerful piece in a game of chess?

Difficulty : Moderate

Average Time : 59 Seconds

Options :

1. King
2. Queen
3. Rook
4. Knight

Solution :

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

- The queen is the most powerful piece in the game of chess.
- In the game of chess, the queen has more freedom on the chessboard.
- Queen is able to move any number of squares vertically, horizontally, or diagonally.



Each player starts the game with one queen, placed in the middle of the first rank next to the king.

**Question 24 :**

Who was the Chinese pilgrim who visited India during the Gupta period?

Difficulty : Moderate

Average Time : 50 Seconds

**Options :**

1. Hiuen Tsang
2. Fa Hien
3. I ching
4. Li Xiu

**Solution :**

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

- **Fa Hien** was a Chinese Buddhist. He was one of the pilgrims who visited India during the reign of the Gupta emperor Chandragupta II.
- At the age of sixty-five, he traveled from Central China taking the southern route through Shenshen, Dunhuang, Khotan, and then over the Himalayas, to Gandhara and Peshawar. He covered his all journeys mostly on foot.
- He came in search of Buddhist books of discipline and to gain knowledge of Buddhism and collect its religious texts during the reign of Chandra Gupta II.
- He also wrote his impressions of India.

**Question 25 :**

Which of the below options is called a laughing gas?

Difficulty : Moderate

Average Time : 60 Seconds

**Options :**

1.  $N_2O$
2.  $CO_2$
3.  $H_2O$
4.  $SO_2$

**Solution :**

The correct answer is option 1 i.e. **N<sub>2</sub>O**.

- Nitrous oxide ( **N<sub>2</sub>O**) commonly known as laughing gas.
- It is known as "laughing gas" due to the euphoric effects of inhaling it, a property that has led to its recreational use as a dissociative anesthetic.
- Nitrous oxide is a chemical compound, an oxide of nitrogen with the formula N<sub>2</sub>O.
- At room temperature, it is a colorless non-flammable gas, with a slight metallic scent and taste.
- At elevated temperatures, It is a powerful oxidizer similar to molecular oxygen.
- It is soluble in water.
- It is used especially in medical surgery and dentistry, for its anaesthetic and pain-reducing effects.

**Question 26 :**

Who is the current CEO of Flipkart?

Difficulty : Moderate

Average Time : 66 Seconds

**Options :**

1. **Ananth Narayanan**
2. **Mukesh Bansal**
3. **Binny Bansal**
4. **Sachin Bansal**

**Solution :**

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

- In January 2017, Binny Bansal was appointed as the CEO of Flipkart and resigned in November 2018 due to personal misconduct allegations of Flipkart.
- Binny is from Chandigarh and graduated from the Indian Institute of Technology Delhi with a degree in computer science and engineering.
- As of 2020, the current CEO of Flipkart is **Kalyan Krishnamurthy**.
- Flipkart is an Indian e-commerce company based in Bengaluru, India.
- It was founded by **Sachin Bansal** and **Binny Bansal** in 2007.

**Question 27 :**

What is the shape of the orbit of the planets?

Difficulty : Moderate

Average Time : 57 Seconds





## Options :

1. Round
2. straight line
3. Elliptical
4. Stretched out circle

## Solution :

The correct answer is option 4 i.e. **Stretched out circles.**

- Orbits come in different shapes.
- All orbits are elliptical, which means they are an ellipse, similar to an oval like **Stretched out circles.**
- In our solar system, the Earth orbits the Sun, as do the other eight planets.
- They all travel on or near the orbital plane, an imaginary disk-shaped surface in space.
- In addition to the planets' orbits, many planets have moons that are in orbit around them.
- Orbits are the result of a perfect balance between the forward motion of a body in space, such as a planet or moon, and the pull of gravity on it from another body in space, such as a large planet or star.

## Question 28 :

Goecha La is a pass in which of the following Indian State?

Difficulty : Moderate

Average Time : 66 Seconds

## Options :

1. Sikkim
2. Assam
3. Meghalaya
4. Uttarakhand

## Solution :

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

- Goecha La is a high mountain pass in Sikkim, India in the Himalaya range.
- This pass is the southeast face of Mt. Kanchenjunga, the world's third-highest mountain.
- The biggest reason to do the Goechala trek is the grand views of big mountains that you see. You don't just see one summit, the Kanchenjunga but 14 other big summits.
- Goechala trek is a high altitude mountain trek Altitudes is 4940 Meters.

## More Info About Sikkim

Capital	Gangtok
Chief Minister	Prem Singh Tamang
Governor	Ganga Prasad
Bird	Red Panda
Flower	Blood Pheasant

### Question 29 :

Who is the current supreme commander of Indian Defense forces?

Difficulty : Moderate

Average Time : 76 Seconds

### Options :

1. Narendra Modi
2. Sumitra Mahajan
3. Pranab Mukherjee
4. Lt. Gen Dalbir Singh

### Solution :

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

- President is the supreme commander of Indian armed forces.
- Pranab Mukherjee was the 13th President of India from 2012 until 2017.
- He is the commander-in-chief of armed forces of the country during his tenure from 2012 to 2017.
- In the year 2020, Ram Nath Kovind is the supreme commander of Indian armed forces.
- As a supreme commander, he enjoys all the trapping of military pomp and ceremony.

### Question 30 :

In accordance with the Constitution, Protection of Life and Personal Liberty is granted under which Article?

Difficulty : Moderate

Average Time : 55 Seconds

### Options :

1. Article 20
2. Article 21

**Article 22****4. Article 23****Solution :**

The correct answer is **option 2** i.e. **Article 21**.

- Protection of Life and Personal Liberty is granted under Article 21.
- Article 21 reads as: "No person shall be deprived of his life or personal liberty except according to a procedure established by law".
- Article 21 secures two rights:
  - **Right to life.**
  - **Right to personal liberty.**
- The Article prohibits the deprivation of the above rights except according to a procedure established by law.
- Article 21 applies to natural persons. The right is available to every person, citizen, or alien.
- Even a foreigner can claim this right. It, however, does not entitle a foreigner the right to reside and settle in India, as mentioned in Article 19 (1) (e).

**Question 31 :**

which of the princely states was the largest before independence?

**Difficulty : Moderate**

**Average Time : 65 Seconds**

**Options :**

1. **Hyderabad**
2. Kochi
3. **Sundernagar**
4. Pudukkottai

**Solution :**

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

- A princely state was a vassal state under a local or regional ruler in a subsidiary alliance with the British Raj.
- **Hyderabad** princely state was the largest before independence.
- Hyderabad State was founded by Mir Qamar-ud-din Khan who was the governor of Deccan under the Mughals from 1713 to 1721.
- Before the independence of India, 584 Princely States which is also known as the Native States.
- These Princely states existed in India, which were not fully and formally part of British India, the parts of the Indian subcontinent which had not been conquered or annexed by the British but under the indirect rule, subject to



subsidiary alliances.

**Question 32 :**

In which direction does the freely suspended magnet point?

Difficulty : Moderate

Average Time : 63 Seconds

**Options :**

1. east - west direction
2. north - south direction
3. east - north direction
4. west - south direction

**Solution :**

The correct answer is option 2 i.e. **north - south direction**.

- A freely suspended magnet always points in the **north-south direction**.
- The reason behind this is that the earth behaves as a magnetic dipole.
- A freely suspended magnet's south pole is attracted by earth's north pole and the north pole of the magnet is attracted by the earth's south pole.
- Magnetite is the only natural magnet.
- Artificial magnets are prepared by imparting the properties of natural magnet to the magnetic substances by rubbing with the magnet or by the process of induction.

**Question 33 :**

Which of the following is nitrogen-fixing bacteria?

Difficulty : Moderate

Average Time : 59 Seconds

**Options :**

1. Salmonella
2. Rhizobium
3. E.coli
4. Pseudomonas

**Solution :**



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

- **Rhizobium** is nitrogen-fixing bacteria.
- This is diazotrophic bacteria that fix nitrogen after becoming established inside the root nodules of legumes.
- Rhizobium found in soil that helps in fixing nitrogen in leguminous plants.
- It attaches to the roots of the leguminous plant and produces nodules. These nodules fix atmospheric nitrogen and convert it into ammonia that can be used by the plant for its growth and development.

**Question 34 :**

What is one hump camel called?

Difficulty : Moderate

Average Time : 51 Seconds

**Options :**

1. Okapi
2. Ibex
3. Dromedary
4. Elk

**Solution :**

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

- One hump camel called **Dromedary Camel**.
- This type of camel is also called the Arabian camel.
- It is the tallest of the three species of camel. Adult males stand 1.8–2 m at the shoulder, while females are 1.7–1.9 m tall.
- **Bactrian camels** have two humps.
- The dromedary also has longer limbs than a normal camel.

**Question 35 :**

Which of the following objects revolve around the sun?

Difficulty : Moderate

Average Time : 51 Seconds

**Options :**

1. Planet
2. Satellite
3. Star



## Galaxy

### Solution :

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

- Among the following, Planets revolve around the sun.
- The solar system is made up of the sun and everything that orbits around it, including planets, moons, asteroids, comets, and meteoroids.
- The Sun is the star at the center of the Solar System.
- It is a nearly perfect sphere of hot plasma, with the internal convective motion that generates a magnetic field.
- There are many different types of objects found in the solar system: a star, planets, moons, dwarf planets, comets, asteroids, gas, and dust.
- Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, and Neptune are the 8th planets.

### Question 36 :

Which of the following is included in the exhaled breath?

Difficulty : Moderate

Average Time : 59 Seconds

### Options :

1. Hydrogen
2. Helium
3. Water vapour
4. Nitrogen

### Solution :

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

- Mostly nitrogen is included in the exhaled breath.
- Gases in the air that we exhale are roughly 78 percent nitrogen.
- Around 18 percent oxygen and 4 to 5 percent carbon dioxide and 0.96 percent argon.
- Nitrogen is a nonmetallic element of Group 15 of the periodic table.
- It is a colorless, odorless, tasteless gas that is the most plentiful element in Earth's atmosphere and is a constituent of all living matter.

### Question 37 :

In which of the following game the word "Bagel" is used?



Difficulty : Moderate

Average Time : 53 Seconds

Options :

1. Tennis
2. Cricket
3. Badminton
4. Boxing

Solution :

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

- **Bagel** is a term used to refer to a tennis player who losses a set **6-0**.
- It is termed as such since a bagel takes the shape of the number zero.
- If a tennis player is bagelled, then they do not win any games during a set, and therefore suffer the humiliation of seeing a 6-0 score against them appear on the scoreboard.
- Tennis is a racket sport that can be played individually against a single opponent or between two teams of two players each.
- This is an Olympic sport and is played at all levels of society and at all ages.
- **Roger Federer** is the world No. 1 tennis player.

Comprehension :

he following questions are based on the information given below: In a school of 4000 students 3000 know English, 2000 know French and 500 know Hindi, 1500 know French and English, 300 know French and Hindi, 200 know English and Hindi and 50 know all the three languages.

Question 38 :

How many know only two languages?

Difficulty : Moderate

Average Time : 76 Seconds

Options :

1. 450
2. 500
3. 1850
4. 1580

Solution :



The correct answer is option 3 i.e. 1850

Understanding

Given

No. of students who know English = 3000

No. of students who know French = 2000

No. of students who know Hindi = 500

Now,

No. of students who know English and French both is = 1500

No. of students who know Hindi and French both is = 300

No. of students who know English and Hindi both is = 200

All three know = 50

Application

Two language know =  $(1500 + 300 + 200) - (50 \times 3)$

=  $2000 - 150 = 1850$

### Comprehension :

The following questions are based on the information given below: In a school of 4000 students 3000 know English, 2000 know French and 500 know Hindi, 1500 know French and English, 300 know French and Hindi, 200 know English and Hindi and 50 know all the three languages.

### Question 39 :

How many know at least one language?

Difficulty : Moderate

Average Time : 68 Seconds

### Options :

1. 3500
2. 3000
3. 1850
4. 3550

### Solution :

The correct answer is option 1 i.e. 3500



**Understanding**

No. of students who know English = 3000

No. of students who know French = 2000

No. of students who know Hindi = 500

Now,

No. of students who know English and French both is = 1500

No. of students who know Hindi and French both is = 300

No. of students who know English and Hindi both is = 200

All three know = 50

**Application**

At least 1 language = ( knows Eng + Knows French + knows Hindi ) - ( Eng & French + French & Hindi + Hindi & English )

= ( 3000 + 2000 + 500 ) - ( 1500 + 300 + 200 )

= 5500 - 2000 = 3500

**Comprehension :**

The following questions are based on the information given below: In a school of 4000 students 3000 know English, 2000 know FRENCH AND 500 KNOW Hindi, 1500 know French and English, 300 know French and Hindi, 200 know English and Hindi and 50 know all the three languages.

**Question 40 :**

How many do not know any of the three languages?

**Difficulty : Moderate**

**Average Time : 71 Seconds**

**Options :**

1. 550

2. 500

3. 400

4. 450

**Solution :**

The correct answer is option 4 i.e. 450

**Understanding**



No. of students who know English = 3000  
No. of students who know French = 2000  
No. of students who know Hindi = 500  
Now,  
No. of students who know English and French both is = 1500  
No. of students who know Hindi and French both is = 300  
No. of students who know English and Hindi both is = 200  
All three know = 50

Application

At least 1 language = ( knows Eng + Knows French + knows Hindi ) - ( Eng & French + French & Hindi + Hindi & English )  
= ( 3000 + 2000 + 500 ) - ( 1500 + 300 + 200 )  
= 5500 - 2050 = 3500  
Don't know any language = Total students - Knows at least 1 language - All three language  
= 4000 - 3500 - 50 = 4000 - 3550 = 450

### Comprehension :

The table below depicts the no. of pages printed by 6 Printers in 5 different months. Study the table carefully and answer the following questions

Number of pages printed by 6 printers in 5 different months	Month	Printer P	Printer Q	Printer R	Printer S	Printer T	Printer U
1st	664	618	628	552	638	419	2nd
2nd	569	441	519	438	621	537	3rd
3rd	440	614	503	527	541	742	4th
4th	256	563	347	651	412	321	5th
5th	717	429	598	582	519	693	

### Question 41 :

What is the ratio between the number of the pages printed by printer Q in second month and the number of pages printed by printer U in the fifth month?

Difficulty : Moderate

Average Time : 86 Seconds

### Options :

1. 11:13
2. 7:11
3. 9:11
4. 9:13

### Solution :



The correct answer is option 2 i.e. 7 : 11

Understanding
Q in 2nd month = 441
U in 5th month = 693
Application
Q : U = 441 : 693 = 7 : 11

**Comprehension :**

The table below depicts the no. of pages printed by 6 Printers in 5 different months. Study the table carefully and answer the following questions

Number of pages printed by 6 printers in 5 different months	Month	Printer P	Printer Q	Printer R	Printer S	Printer T	Printer U
1st	664	618	628	552	638	419	2nd
2nd	569	441	519	438	621	537	3rd
3rd	440	614	503	527	541	742	4th
4th	256	563	347	651	412	321	5th
5th	717	429	598	582	519	693	

**Question 42 :**

Which printer printed maximum number of pages in all the given months together?

**Difficulty :** Moderate

**Average Time :** 54 Seconds

**Options :**

1. Printer S
2. Printer U
3. Printer P
4. Printer T

**Solution :**

The correct answer is option 1 i.e. Printer S

Understanding
---------------



P in all 5 month =  $664 + 569 + 440 + 256 + 717 = 2646$

Q in all 5 month =  $618 + 441 + 614 + 563 + 429 = 2665$

R in all 5 month =  $628 + 519 + 503 + 347 + 598 = 2595$

S in all 5 month =  $552 + 438 + 527 + 651 + 582 = 2750$

T in all 5 month =  $638 + 621 + 541 + 412 + 519 = 2731$

U in all 5 month =  $419 + 537 + 742 + 321 + 693 = 2712$

Application

S printer print 2750 in all 5 months i.e maximum of all.

**Comprehension :**

The table below depicts the no. of pages printed by 6 Printers in 5 different months. Study the table carefully and answer the following questions

Number of pages printed by 6 printers in 5 different months	Month	Printer P	Printer Q	Printer R	Printer S	Printer T	Printer U
1st	664	618	628	552	638	419	519
2nd	569	441	519	438	621	537	3rd
3rd	440	614	503	527	541	742	4th
4th	256	563	347	651	412	321	5th
5th	717	429	598	582	519	693	

**Question 43 :**

What is the average number of pages printed by all the given printers in 4th month?

Difficulty : Moderate

Average Time : 73 Seconds

**Options :**

1. 415
2. 430
3. 425
4. 325

**Solution :**

The correct answer is option 3 i.e. 425

Understanding

P in 4th month = 256

Q in 4th month = 563

R in 4th month = 347

S in 4th month = 651

T in 4th month = 412

U in 4th month = 321

Sum of 4th month of (P + Q + R + S + T + U) = 2550

Application

Average = Sum of numbers/ total number of printers

$2550/6 = 425$

**Question 44 :**

Ram naresh got two successive discounts, a bag with a list price of Rs. 400 is available at Rs. 160. If the second discount is 20%, find the first discount.

**Difficulty : Moderate**

**Average Time : 60 Seconds**

**Options :**

1. 40%
2. 30%
3. 50%
4. 80%

**Solution :**

The correct answer is option 3 i.e. 50%

Understanding

Marked Price = Rs 400

Selling Price = Rs 160

Discount = (x% + 20%)



Application

$$(100 - 20)\% = 160$$

$$80\% = \text{Rs } 160$$

So,

$$100\% = (160/80) 100 = \text{Rs } 200$$

Rs 200 is that rate after x% discount.

$$x \% = (200/400) 100$$

$$= 50\%$$

**Question 45 :**

What is the minimum value of 'Y' for which 267Y2 is divisible by 3?

Difficulty : Moderate

Average Time : 46 Seconds

Options :

1. 2

2. 1

3. 0

4. 5

**Solution :**

The correct answer is option 2 i.e. 1

Understanding

For divisible of 3, Add all number, and the result is divisible by 3.

Then the number is also divisible by 3.

Application



$$267Y2 = 2 + 6 + 7 + Y + 2$$

$$= 17 + Y .$$

$$= 1 + 7 + Y = 8 + Y$$

After 8, 9 is divisible by 3

$$\text{so, } Y = 9 - 8 = 1$$

**Question 46 :**

Deepak sells all his goods available in his shop at the cost price, but he cheats his customer and gives 20% less goods as he should give. Find his % profit.

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

1. 30%
2. 33%
3. 25%
4. 20%

**Solution :**

The correct answer is option 3 i.e. 25%

Understanding

Let,  
Cost price of all goods of the shop = Rs 100  
Number of good = 100  
Cost price 1 good =  $100/100 = 1$   
Give 20% less goods =  $100 - (20/100) 100$   
 $= 100 - 20 = 80$   
So,  
Cost price of 80 goods =  $80 \times 1 = 80$   
Selling price of 80 Goods = Cost price of 100 goods = Rs 100

Application

Profit% =  $[(100 - 80)/80] 100$   
 $= [20/80] 100$   
 $= 25\%$

**Question 47 :**

The shadow of a tower on the ground level is increased by 30 m, when the angle of depression by the sun changes from  $60^\circ$  to  $30^\circ$ . The height of the tower is?

Difficulty : Moderate

Average Time : 57 Seconds

**Options :**

1. 123 m
2. 173 m
3. 163 m
4. 153 m

**Solution :**

The correct answer is option 4 i.e. 153 m

Understanding



In figure, according to question

$$AB = \text{Tower} = l$$

$$DC = 30 \text{ m}$$

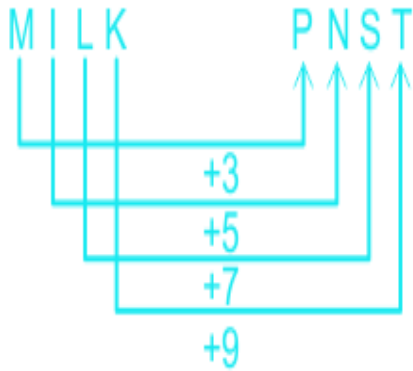
$$BC = \text{base} = BD + DC = b$$

$$\angle ADB = 60^\circ$$

$$\angle ACB = 30^\circ$$

$$\tan 30^\circ = 1/3$$

$$\tan 60^\circ = 3$$



Application



$$\tan 30^\circ = AB/BC$$

$$1/3 = 1/BC$$

$$BC = 1/3$$

$$\tan 60^\circ = AB/BD$$

$$3 = 1/BD$$

$$BD = 1/3$$

$$BC - BD = DC$$

$$1/3 - 1/3 = 30 \text{ m}$$

$$2/3 = 30 \text{ m}$$

so,

$$1 = (30 \times 3)/2$$

$$= 153$$

$$AB = \text{Tower} = 1 = 153 \text{ m}$$

**Question 48 :**

If  $(x+a)$  is the H.C.F of  $2x^2+5x-12$  and  $x^2+x-12$  then find the value of  $a$ .

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

1. -3

2. -2

3. 4

4. 5

**Solution :**

4

**Question 49 :**

Atul can do a piece of work in 18 days, Aaravya is 50% more efficient than Atul. How much more time does Atul take than Aaravya to do the same piece of work?

Difficulty : Moderate

Average Time : 32 Seconds

Options :

1. 12

2. 6

3. 18

4. 10

Solution :

The correct answer is option 1 i.e. 12 days

Understanding

Atul = 18 Days

Let Efficiency of Atul = 10

So, Efficiency of Aaravya =  $10 + (50/100)10$

=  $10 + 5 = 15$

Aaravya = x days

Total work =  $18 \times 10 = 180$

Application

Time taken by Aaravya =  $T.W/Effi.$

=  $180/15 = 12$  days

Question 50 :

If  $20 - 10$  means 200,  $8 \div 4$  means 12,  $6 \times 2$  means 4, then  $100 - 10 \times 100 + 100 \times 10 = ?$

Difficulty : Moderate

Average Time : 47 Seconds

Options :

1. 20

2. 989

3. 0

1

**Solution :**

The correct answer is option 2 i.e. 989

Understanding
20 - 10 means 200
Here "-" means "x"
$8 \div 4$ means 12
Here " $\div$ " means "+"
$6 \times 2$ means 4
Here "x" means "-"
Application
$100 - 10 \times 100 + 100 \times 10 = ?$
$= 100 \times 10 - 100 \div 100 - 10$
$= 1000 - 1 - 10$
$= 989$

**Question 51 :**

B is thrice as efficient as A and C is 0.75 times as efficient as A. What is the ratio of number of days taken by A, B and C when they work individually?

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

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

**Solution :**

The correct answer is option 2 i.e. 3 : 1 : 4

**Understanding**

Let,

Efficiency of A = 100

Then,

Efficiency of C =  $100 \times 0.75 = 75$

And Efficiency of B =  $100 \times 3 = 300$

Total work = LCM of 100, 75 and 300

i.e 300

**Application**

Time taken by A =  $300/100 = 3$

Time taken by B =  $300/300 = 1$

Time taken by C =  $300/75 = 4$

Ratio of time of A, B and C

A : B : C = 3 : 1 : 4

**Question 52 :**

In what ratio should Darjeeling Tea costing Rs. 400 per kg be mixed with Assam Tea costing Rs. 300 per kg, so that by selling the mixture at Rs. 408 per kg, there is a gain of 20%?

**Difficulty : Moderate**

**Average Time : 61 Seconds**

**Options :**

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

**Solution :**

The correct answer is option 2 i.e. 2:3

**Understanding**

CP of D. Tea = 400 per kg

CP of A. Tea = 300 per kg

Rs 408 = (CP + Profit)

= (100% + 20%)

SO,

120% = 408

100% =  $(408/120)100 = 340$

100% = CP after mix i.e Rs 340

**Application**

$400x + 300y = 340(xy)$

Put option and get result

(i) option

$400 + 600 = 340 (2)$

$1000 = 680$  (not match LHS not equal to RHS)

Now,

(ii)

$800 + 900 = 340(5)$

$1700 = 1700$  (matched)

Hence, correct answer is 2:3

**Question 53 :**

A bus is running at a speed of 90 kmph. What distance will it cover in 20 seconds?

**Difficulty :** Moderate

**Average Time :** 58 Seconds

**Options :**

1. 500 m

450 m

3. 180 m

4. 600 m

**Solution :**

The correct answer is option 1 i.e. 500 m

**Understanding**

Speed = 90 km/hr =  $(90 \times 5/18)$  m/sec  
= 25 m/sec.

Distance = ?

Time = 20 sec

Formula:

Distance = Speed  $\times$  Time

**Application**

Distance =  $(25 \times 20)$  m  
= 500 m

**Question 54 :**

Neeraj's earning was decreased by 60% and after that subsequently increased by 60%. Find the final loss % on his earnings?

Difficulty : Moderate

Average Time : 48 Seconds

**Options :**

1. 12%

2. 36%

3. 4%

4. 5%

**Solution :**

The correct answer is **option 2** i.e. **36%**



Understanding

Let,

$$P = 100$$

1st decrease by 60%

$$\text{Amount} = 100 - (60/100)100 = 100 - 60 = 40$$

$$\text{New P} = 40$$

Now Increase by 60%

$$\text{New amount} = 40 + (60/100)40 = 40 + 24 = 64$$

Application

$$\text{Loss\%} = [(100 - 64)/100] 100$$

$$= [36/100] 100 = 36\%$$

**Question 55 :**

Ramu can row 9 km/hr in still water. It takes him twice as long to row up as to bow down. Find the rate of the stream.

**Difficulty : Moderate**

**Average Time : 50 Seconds**

**Options :**

1. 16 km/hr
2. 8 km/hr
3. 3 km/hr
4. 9 km/hr

**Solution :**

The correct answer is option 3 i.e. 3 km/hr

Understanding

Downstream = 1 hr

Upstream = 2 hr





Application

$$(9 + w) \times 1 = (9 - w) \times 2$$

$$9 + w = 18 - 2w$$

$$3w = 9$$

$$w = 3 \text{ km/hr}$$

**Question 56 :**

Find the remainder when 413 divided by 3?

**Difficulty : Moderate**

**Average Time : 44 Seconds**

**Options :**

1. 1

2. 2

3. 0

4. 3

**Solution :**

The correct answer is option 1 i.e. 1

Understanding

$$4^{13} \div 3$$

Remainder = ?

When 4 multiply by many times, if power is even then unit place is 6 and the power is odd then unit place is 4

Application

$$4/3 = 1 \text{ (remainder)}$$

**Question 57 :**

The simple interest at  $y\%$  for ' $y$ ' years will be Rs.  $y$  on a sum. Find the principal amount.

**Difficulty : Moderate**

**Average Time : 46 Seconds**

**Options :**



$$100 \div y$$

$$2. 100 \times y$$

$$3. 100y^2$$

$$4. 100 \div y^2$$

**Solution :**

The correct answer is option 1 i.e.  $100 \div y$

**Understanding**

Let,

$$Y = 100$$

$$\text{And Sum of amount} = Y = 100$$

$$\text{ROI} = Y\% = 100\%$$

$$\text{Time} = 100 \text{ years}$$

$$\text{Total \%} = (r \times t)\% = (100 \times 100)\% = 10000\%$$

$$P = (10000/100)100 = 1$$

**Application**

$$\text{Option (i) } 100 \div y$$

$$= 100 \div 100 = 1 \text{ i.e principal value}$$

**Question 58 :**

Find the LCM of 0.63, 10.5, 2.1, 4.20

**Difficulty :** Moderate

**Average Time :** 51 Seconds

**Options :**

$$1. 63$$

$$2. 0.63$$

$$3. 6.30$$

**6300****Solution :**

The correct answer is option 1 i.e. 63

## Understanding

0.63, 10.5, 2.1, 4.20

all number multiply by 100

Now we get

63, 1050, 210, 420

## Application

$$63 = 3^2 \times 7$$

$$1050 = 2 \times 3 \times 5^2 \times 7$$

$$210 = 2 \times 3 \times 5 \times 7$$

$$420 = 2^2 \times 3 \times 5^2 \times 7$$

LCM of 63, 1050, 210 and 420 is

$$2^2 \times 3^2 \times 5^2 \times 7 = 6300$$

Now divide by 100

$$6300/100 = 63$$

**Question 59 :**Find the value of x if  $0.08x + 0.04y = 10$  and  $0.2(x - 1) + 0.4y = 24.8$ **Difficulty : Moderate****Average Time : 57 Seconds****Options :**

1. 125
2. 150
3. 1.25
4. 12.5

**Solution :**

The correct answer is **option 1** i.e. **125**

## Understanding

$$0.08x + 0.04y = 10$$

$$8x + 4y = 10 \times 100$$

$$8x + 4y = 1000$$

$$2x + y = 250 \dots(i)$$

and

$$0.2(x - 1) + 0.4y = 24.8$$

$$2(x - 1) + 4y = 248$$

$$2x - 2 + 4y = 248$$

$$2x + 4y = 250 \dots(ii)$$

## Application

Subtract equation (i) from (ii)

We get,

$$2x + y - 2x - 4y = 250 - 250$$

$$-3y = 0$$

$$y = 0$$

Put value of y in equation (i)

$$2x + y = 250$$

$$2x = 250 - 0$$

$$x = 250/2 = 125$$

**Question 60 :**

If the standard deviation of a population is 4.5, what would be the population variance?

**Difficulty : Moderate**

**Average Time : 62 Seconds**

**Options :**



20.25

2. 20

3. 9

4. 18

**Solution :**

The correct answer is option 1 i.e.20.25

Understanding
Formula: Variance = (standard deviation) Given, SD = 4.5
Application
$SD = (4.5)^2 = 20.25$

**Question 61 :**

Rs. 10,000 is being compounded at 20% per annum. Calculate the amount after 2 years if the rate of interest is charged half-yearly.

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

1. 14600

2. 12500

3. 14642

4. 14641

**Solution :**

The correct answer is option 4 i.e.14641

Understanding
---------------



Formula:

$$\text{Amount} = P (1 + r/n)^{nt}$$

Where,

$$r = 20\%$$

$$t = 2 \text{ years}$$

$$n = 2 \text{ (two time in a year)}$$

$$P = 10000$$

Application

$$A = 10000 (1 + 20/200)^4$$

$$A = 10000 (11/10)^4$$

$$A = 10000 \times 11/10 \times 11/10 \times 11/10$$

$$A = 11 \times 11 \times 11 \times 11$$

$$A = 14641$$

**Question 62 :**

What is the average of first 30 multiples of 9?

**Difficulty : Moderate**

**Average Time : 51 Seconds**

**Options :**

1. 142
2. 138.5
3. 139.5
4. 143.5

**Solution :**

The correct answer is option 3 i.e.139.5

Understanding

Given,

Number =  $N = 9$

Number of term =  $n = 30$

Formula:

Average =  $[\text{Number} \times (n+1)]/2$ .

Application

Average =  $[9 \times (30+1)]/2$

=  $4.5 \times 31 = 139.5$

**Question 63 :**

When Babu decreases the selling price of the shoes from Rs. 360 to Rs. 345, his loss increases by 4%. The cost price of the shoes is :

Difficulty : Moderate

Average Time : 47 Seconds

**Options :**

1. Rs. 275
2. Rs. 375
3. Rs. 425
4. Rs. 450

**Solution :**

The correct answer is option 2 i.e. Rs 375

Understanding

$4\% = \text{Rs } (360 - 345) = \text{Rs } 15$

$100\% = \text{CP}$

Application



$$100\% = (15/4)100$$

$$= \text{Rs } 375$$

**Question 64 :**

If the angles of a triangle are in the ratio of 2:5:8, then find the value of the smallest angle.

Difficulty : Moderate

Average Time : 42 Seconds

**Options :**

1.  $36^\circ$
2.  $18^\circ$
3.  $12^\circ$
4.  $24^\circ$

**Solution :**

The correct answer is option 4 i.e.  $24^\circ$

**Understanding**

Sum of all 3 angles of a triangle =  $180^\circ$

The ratio of the angle of a triangle = 2:5:8

$$2x + 5x + 8x = 180^\circ$$

$$15x = 180^\circ$$

$$x = 12^\circ$$

**Application**

$$\text{1st angle} = 2x = 2 \times 12^\circ = 24^\circ$$

$$\text{2nd angle} = 5x = 5 \times 12^\circ = 60^\circ$$

$$\text{3rd angle} = 8x = 8 \times 12^\circ = 96^\circ.$$

$$\text{Smallest angle} = 24^\circ$$

**Question 65 :**

The mean of a distribution is 20 and the standard deviation is 4. What is the value of the coefficient variation?





Difficulty : Moderate

Average Time : 59 Seconds

Options :

1. 10%
2. 20%
3. 40%
4. 60%

Solution :

The correct answer is option 2 i.e. 20%

Understanding

Formula:

coefficient variation = (standard deviation/ mean) 100%

Given,

SD = 4

Mean = 20

Application

CV =  $(4/20)$  100%

= 20%

Question 66 :

If  $10x^2 - 6xy + y^2 - 4x + 4 = 0$ , then find the value of  $(x+2y)$ .

Difficulty : Moderate

Average Time : 43 Seconds

Options :

1. 10
2. 20
3. 14



18

**Solution :**

The correct answer is option 3 i.e. 14

Understanding

Given,

$$10x^2 - 6xy + y^2 - 4x + 4 = 0$$

$$9x^2 + x^2 - 6xy + y^2 - 4x + 4 = 0$$

$$(x^2 - 4x + 4) + (9x^2 - 6xy + y^2) = 0$$

$$(x - 2)^2 + (3x - y)^2 = 0$$

Application

$$(x - 2)^2 = 0$$

$$x - 2 = 0$$

$$x = 2$$

So,

$$(3x - y)^2 = 0$$

$$3x - y = 0 \quad [\text{put } x = 2]$$

$$y = 6$$

Now,

$$(x+2y) = (2 + 2 \times 6) = 2 + 12 = 14$$

**Question 67 :**

Mayank, Deepak and Pawan, each of them working alone can complete a work in 5, 10 and 15 days respectively. If all three of them work together to complete a work and earn Rs. 12,000, what will be Deepak's share of the earnings?

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

Page No: 50

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Rs. 2000

2. Rs. 6000

3. Rs. 3272

4. Rs. 3000

**Solution :**

The correct answer is option 3 i.e. Rs 3272

**Understanding**

Mayank = 5 Days

Deepak = 10 days

Pawan = 15 Days

Let,

Total work = LCM of 5, 10, 15 = 30

Mayank's efficiency =  $30/5 = 6$

Deepaks efficiency =  $30/10 = 3$

Pawans efficiency =  $30/15 = 2$

**Application**

Work Together =  $T.\text{work}/(\text{sum of eff.})$

=  $30/(6 + 3 + 2) = 30/11$  days

1 Unit rate =  $12000/30 = 400$

Deepak's share =  $400 \times 3 \times 30/11 = 3272.72$

**Question 68 :**

The angle of the elevation of a ladder leaning against a wall is  $45^\circ$  and the foot of the ladder is 10m away from the wall. The length of the ladder is:

Difficulty : Moderate

Average Time : 57 Seconds

Options :

10 m

2. 13 m

3. 15 m

4. 16 m

**Solution :**

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

Understanding/Application

A/q-

The foot of the ladder away from wall = Base (b) = 10 m

Angle of elevation =  $45^\circ$  (Given)

Length of wall = perpendicular(p) = x meters

We know that, In the right-angle triangle, if an angle is  $45^\circ$  then perpendicular and base are equal in length (1:1)

Hence,

Length of wall = b = p = 10 m

**Question 69 :**

Find the value of  $6732.8 + 673.28 + 67.328 + 6.7328 + 0.67328$ ?

**Difficulty : Moderate**

**Average Time : 59 Seconds**

**Options :**

1. 74808.1408

2. 7480.78408

3. 74808.2408

4. 74808.81408

**Solution :**

The correct answer is **option 4** i.e. **74808.81408**

Understanding



$$6732.8 + 673.28 + 67.328 + 6.7328 + 0.67328 \\ = 74808.81408$$

(See all options, before decimal all result is 74808. So, we add only those numbers which comes after the decimal and match from options)

Application

$$8 + 28 + 328 + 7328 + 67328 = 81408$$

Option 4 is correct.

**Question 70 :**

Find the least number which when divided by 12,15, 18 and 27 leaves remainders 10, 13, 16 and 25 respectively.

Difficulty : Moderate

Average Time : 47 Seconds

**Options :**

1. 540
2. 538
3. 542
4. 552

**Solution :**

The correct answer is option 2 i.e. 538

Understanding



LCM of 12, 15, 18, 27 = 540

Difference between Remainder and divisor.

(i)  $12 - 10 = 2$

(ii)  $15 - 13 = 2$

(iii)  $18 - 16 = 2$

(iv)  $27 - 25 = 2$

Application

Number =  $540 - 2 = 538$

**Question 71 :**

The mean of 12 observations is 15. One more observation is included and the new mean becomes 16. The 13th observation is-

Difficulty : Moderate

Average Time : 45 Seconds

**Options :**

1. 20

2. 24

3. 26

4. 28

**Solution :**

The correct answer is option 4 i.e. 28

Understanding

Sum of 12 number =  $12 \times 15 = 180$

Sum of all 13 number =  $13 \times 16 = 208$

Application



$$\begin{aligned} 13\text{th number} &= \text{Sum of all 13 number} - \text{Sum of 12 number} \\ &= 208 - 180 = 28 \end{aligned}$$

**Question 72 :**

If two complementary angles are in the ratio 4:5., find the greater angle.

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

1.  $40^\circ$
2.  $50^\circ$
3.  $60^\circ$
4.  $30^\circ$

**Solution :**

The correct answer is option 2 i.e.  $50^\circ$

**Understanding**

Sum of complimentary angle =  $90^\circ$

Let,

1st angle =  $4x$

2nd angle =  $5x$

**Application**

$$4x + 5x = 90^\circ$$

$$9x = 90^\circ$$

$$x = 10^\circ$$

so,

$$1\text{st angle} = 4x = 4 \times 10^\circ = 40^\circ$$

$$2\text{nd angle} = 5x = 5 \times 10^\circ = 50^\circ$$

Hence, greater angle =  $50^\circ$

**Question 73 :**

Mohan invested Rs. 100,000 in a garment business. After few months, sohan joined him with Rs. 40000. At the end of the year the total profit was divided between them in ratio 3:1. After how many months did sohan join the business?

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

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

**Solution :**

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

**Understanding**

Mohan's investment =  $10000 \times 12 = 1200000$

Sohan's investment =  $40000 \times x = 40000x$

Profit ratio = M:S = 3:1

**Application**

$1200000:40000x = 3:1$

$x = 1200000/120000$

$x = 10$

So, Sohan invest for 10 months

Sohan invest after  $(:12 - 10) = 2$  months Mohan's

**Comprehension :**

Study the following information carefully and the answer the questions given below it. There are six persons in a family. Chithra is the sister of Rakesh. Badhri is the brother of Eniya's husband. Dilip is the father of arun and grandfather of Rakesh. There are two fathers, three brothers and a mother in the group.

**Question 74 :**

How is Rakesh related to Eniya?



Difficulty : Moderate

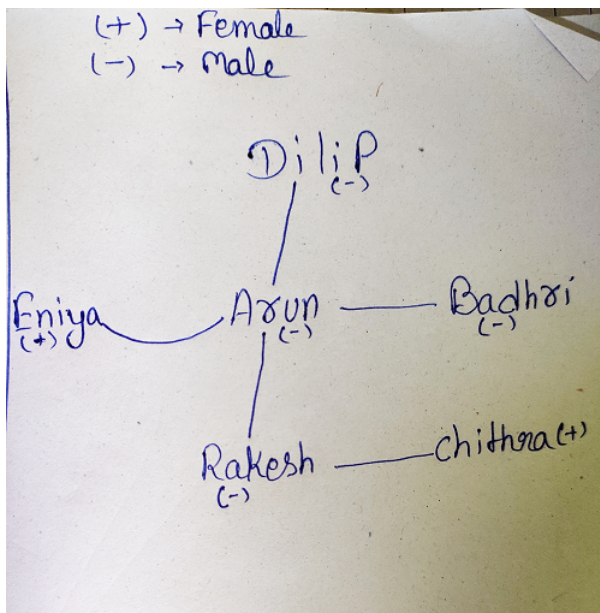
Average Time : 62 Seconds

Options :

1. Son
2. Brother
3. Uncle
4. Cousin

Solution :

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



From the above figure, we can see that **Eniya is the wife of Arun and Arun is the father of Rakesh**. So we can conclude that **Rakesh is the son of Eniya**.

Comprehension :

Comprehension: Study the following information carefully and the answer the questions given below it. There are six persons in a family. Chithra is the sister of Rakesh. Badhri is the brother of Eniya's husband. Dilip is the father of arun and grandfather of Rakesh. There are two fathers, three brothers and a mother in the group.

Question 75 :

Which of the following is a group of brothers?

Difficulty : Moderate

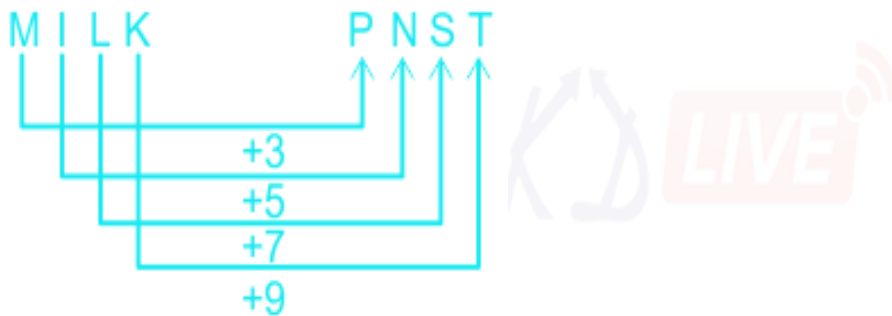
Average Time : 65 Seconds

Options :

1. Arun, Badhri, Dilip
2. Arun, Badhri, Rakesh
3. Badhri, Rakesh, Chithra
4. Badri, Dilip, Rakesh

Solution :

The correct answer is option 2 i.e. **Arun, Badhri, Rakesh.**



From the above figure, we can see that Arun, Badhri, Rakesh are the group of brothers.

**Comprehension :**

Study the following information carefully and the answer the questions given below it. There are six persons in a family. Chithra is the sister of Rakesh. Badhri is the brother of Eniya's husband. Dilip is the father of arun and grandfather of Rakesh. There are two fathers, three brothers and a mother in the group.

**Question 76 :**

How many male members are there in the family?

Difficulty : Moderate

Average Time : 63 Seconds

Options :

1. Three

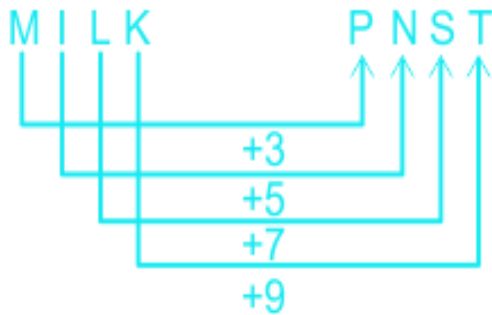
One

3. Four

4. Two

**Solution :**

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



From the above figure, we can see that there are four male members in the family i.e. **Dilip, Arun, Badhri, Rakesh**.

**Question 77 :**

An Assertion (A) and a Reason (R) are given below. Assertion (A): Clothes are not washed properly in hot water. Reason (R): Hard water contains many minerals. Choose the correct option.

Difficulty : Moderate

Average Time : 49 Seconds

**Options :**

1. A is true but R is false
2. A is false but R is true.
3. Both A and R are true and R is the correct explanation of A.
4. Both A and R are true but R is not the correct explanation of A.

**Solution :**

The correct answer is option 2 i.e. **A is false but R is true**.

- Clothes are washed properly in hot water but not washed in cold water because it does not form lather with soap. Hence, **A is false**.
- It is true that Hard water contains many minerals. **Calcium** and **magnesium** dissolved in water are the two most common minerals.



### Question 78 :

An Assertion (A) and a Reason (R) are given below. Assertion (A): The Indian Constitution came into force with effect from 26th January 1950. Reason (R): 26th January is celebrated as the Republic day. Choose the correct option.

Difficulty : Moderate

Average Time : 66 Seconds

### Options :

1. A is true but R is false.
2. A is false but R is true.
3. Both A and R are false.
4. Both A and R are true but R is not the correct explanation of A.

### Solution :

The correct answer is option 4 i.e. **Both A and R are true but R is not the correct explanation of A.**

- The **Constitution** was adopted by the **Indian** Constituent Assembly on **26** November 1949 and **came into effect** on **26 January 1950** with a democratic government system, completing the country's transition towards becoming an independent republic.
- **26 January** was chosen as the date for **Republic day** because it was on this **day** in 1929 when the Declaration of Indian Independence was proclaimed by the Indian National Congress as opposed to the Dominion status offered by the British Regime.
- Hence, **Both A and R are true but R is not the correct explanation of A.**

### Question 79 :

One of the words is a class to which the other three belong. Identify the class.

Difficulty : Moderate

Average Time : 77 Seconds

### Options :

1. Coal
2. Lignite
3. Anthracite
4. Peat

### Solution :

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

**Lignite, Anthracite, Peat** these three are the types of coal.

**Question 80 :**

If '+' stands for '+', '-' stands for '-', '÷' stands for '÷', 'x' stands for 'x', '^' stands for '=', then which of the following alternatives is correct?

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

1.  $36236^5$
2.  $2562^6$
3.  $74361^4$
4.  $5732^4$

**Solution :**

The correct answer is option 2 i.e.  $2562^6$ .

	+
	-
	÷
	x
^	=

- $2562^6 = 2 \times 5 - 6 + 2 = 6$

$$= 10 - 6 + 2 = 6.$$

**Question 81 :**

Rearrange the jumbled up letters to form a meaningful word and find the odd one out.

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

1. CEKRTCI
2. OHKCYE
3. ESCSH
4. OTOLABLF

**Solution :**

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

CEKRTCI = CRICKET

OHKCYE = HOCKEY

**ESCSH = CHESS**

OTOLABLF = FOOTBALL

Except for Chess, all these are played in the ground. So **ESCSH = CHESS** is the odd one out.

**Question 82 :**

Which of the official language for Android development?

**Difficulty : Moderate**

**Average Time : 42 Seconds**

**Options :**

1. java
2. COBOL
3. FORTRON
4. Ada

**Solution :**

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

- Java is an official language for Android development.
- It is a general-purpose programming language that is class-based, object-oriented, and designed to have as few implementation dependencies as possible.

Language	Application Area	Developer

COBOL(Common Business-Oriented Business Oriented Language)	Business applications	Grace Hopper in 1959	
FORTRAN (Formula Translation)	Engineering & Scientific Applications	IBM in 1957	
JAVA	General Purpose - Internet Oriented Programming	James Gosling in 1995	

**Question 83 :**

Consider the following statements & choose the correct options: When two straight lines intersect then, 1. Adjacent angles are supplementary 2. Opposite angles are supplementary

Difficulty : Moderate

Average Time : 74 Seconds

**Options :**

- Both 1 and 2 are incorrect
- Both 1 and 2 are correct
- 1 is incorrect and 2 is correct
- 1 is correct and 2 is incorrect

**Solution :**

The correct answer is option 4 i.e. **1 is correct and 2 is incorrect.**

- When two straight lines intersect then, Adjacent angles are supplementary.

**Question 84 :**

If TABLE is written as 84973 and CHAIR is written as 51462, then how is TEACHER coded?

Difficulty : Moderate

Average Time : 41 Seconds

Options :

1. 8431532
2. 8341532
3. 8435132
4. 8345132

Solution :

The correct answer is option 4 i.e. **8345132**.

T	A	B	L	E
8	4	9	7	3

C	H	A	I	R
5	1	4	6	2

Hence,

T	E	A	C	H	E	R
8	3	4	5	1	3	2

Question 85 :

If '+' means '-', '-' means 'x', 'x' means '÷', '÷' means '+', then  $15 - 3 + 10 \times 5 \div 5 =$  \_\_\_\_\_

Difficulty : Moderate

Average Time : 102 Seconds

Options :

1. 22
2. 24
3. 48



52

**Solution :**

The correct answer is option 3 i.e. **48**.

+	-
-	X
X	÷
÷	+

$$15 - 3 + 10 \times 5 \div 5 = 15 \times 3 - 10 \div 5 + 5 = \mathbf{48}.$$

**Question 86 :**

Based on the analogy given, find the missing word from the given options Everest : Peak : : \_\_\_\_\_ : \_\_\_\_\_

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

1. Yamuna : River
2. Chilka : Lake
3. Sparrow : Bird
4. Jupiter : Planet

**Solution :**

The correct answer is option 4 i.e. **Jupiter : Planet**.

As Peak is related to Everest. In the same way, Jupiter is related to Planet.

**Question 87 :**

Based on the analogy given, find the missing word from the given options. Foot : Toes : : Hand : ?

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

1. Thumb
2. Palm



## Fingers

### 4. Nails

#### Solution :

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

- Here Foot and Toes are related as Toes are the part of Foot.
- Hence we know that **Fingers** are the part of Hand, so the correct answer is **Fingers**.

#### Question 88 :

If B = 2, K = 11; MAN = 0, SIN = 14, then what is the value of HOT?

Difficulty : Moderate

Average Time : 41 Seconds

#### Options :

1. 3
2. 0
3. 1
4. 22

#### Solution :

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

If B = 2, K = 11 and so on

then, M = 13, A = 1, N = 14

MAN = (13 + 1 - 14) = 0

SIN = (19 + 9 - 14) = 14

So, HOT = (8 + 15 - 20) = 3.

#### Question 89 :

If FHNPKMEG means GOLF, then what does RTSUHJBDJL stand for?

Difficulty : Moderate

Average Time : 37 Seconds

#### Options :

1. HORSE

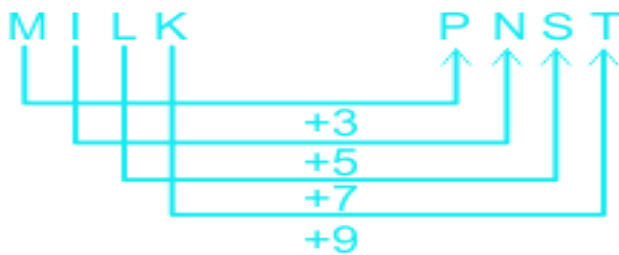
STICK

3. PURSE

4. HOLES

**Solution :**

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



In the same ways, RTSUHJBDJL stands for **STICK**.

**Question 90 :**

Rearrange the jumbled up letters to form a meaningful word and find the odd one out.

**Difficulty : Moderate**

**Average Time : 42 Seconds**

**Options :**

1. ELMSL

2. ERHA

3. IKNTH

4. SAETE

**Solution :**

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

ELMSL = SMELL

ERHA = HEAR

IKNTH = THINK

**SAETE = TEASE**

**TEASE** is the odd one out. The smell, Hear and Think are the sense organ.

**Question 91 :**

If 'when' means 'x', 'she' means '+', 'will' means '+' and 'come' means '-', then what will the value of "8 when 12 will 16 she 2 come 10"?

**Difficulty : Moderate**

**Average Time : 44 Seconds**

**Options :**

1. 94
2. 96
3. 100
4. 10

**Solution :**

The correct answer is option 1 i.e. **94**.

when	x
she	÷
will	+
come	-

$$\begin{aligned} \text{After changing sign, we have } 8 \text{ when } 12 \text{ will } 16 \text{ she } 2 \text{ come } 10 &= 8 \times 12 + 16 \div 2 - 10 \\ &= 8 \times 12 + 8 - 10 \\ &= 96 + 8 - 10 \\ &= 104 - 10 \\ &= \mathbf{94.} \end{aligned}$$

**Question 92 :**

Page No: 68

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Based on the analogy given, find the missing number from the given options.  $11 : 13 :: 17 : \underline{\quad}$

Difficulty : Moderate

Average Time : 111 Seconds

Options :

1. 29
2. 21
3. 19
4. 23

Solution :

The correct answer is option 4 i.e. **23**.

- $11 : 13 :: 17 : x$
- $11 + \underline{2} = 13$
- $13 + \underline{4} = 17$
- $17 + \underline{6} = 23$

Question 93 :

Choose the one which is different or odd from the following options.

Difficulty : Moderate

Average Time : 35 Seconds

Options :

1. Lion
2. Tiger
3. Horse
4. Giraffe

Solution :

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

- **A horse** is different from Lion, Tiger, and Giraffe.
- Because **Lion, Tiger, and Giraffe** are **wild animal** but **Horse** is a **domestic animal**.

Question 94 :

Below are given statements followed by two conclusions I and II. You have to take the given statements to be true even if

they seem to be at variance from commonly known facts. Statements: All birds are trees. All trees are papers. Some papers are books. Conclusions. I. All birds are papers. II. Some birds are books. Decide which of the below options logically follows the given conclusions.

**Difficulty : Moderate**

**Average Time : 59 Seconds**

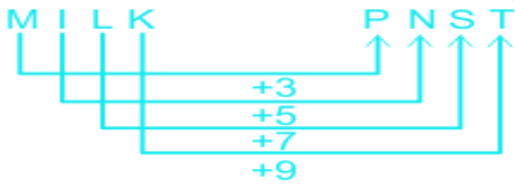
**Options :**

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

**Solution :**

The correct answer is option 3 i.e. **Only conclusion I follow.**

The least possible Venn Diagram for the given statement is as follows.



**Conclusions. I.** All birds are papers = True.

**II.** Some birds are books = False.

Hence, the **Only conclusion I follow.**

**Question 95 :**

Based on the analogy given, find the missing pair from the given options.  $3/5 : 34 :: \underline{\hspace{1cm}} : \underline{\hspace{1cm}}$

**Difficulty : Moderate**

**Average Time : 57 Seconds**

**Options :**

1.  $3/7 : 54$
2.  $4/7 : 65$
3.  $3/11 : 140$
4.  $4/9 : 87$

**Solution :**

The correct answer is option 2 i.e. **4/7 : 65**.

- $3/5 : 34$ ,

$$3^2 + 5^2 = 9 + 25 = 34.$$

Hence,  $4^2 + 7^2 = 16 + 49 = 65$ .

**Question 96 :**

RHYTHM as related to MUSIC in the same way as DESIGN is related to

Difficulty : Moderate

Average Time : 37 Seconds

**Options :**

1. ARCHITECT
2. BUILDING
3. BEAUTY
4. SYMMETRY

**Solution :**

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

- **RHYTHM** is related to **MUSIC** in the same way **DESIGN** is related to **BUILDING**.
- Rhythm is the music's **pattern** in time, and **DESIGN** is referred to the broadly based architectural, engineering, and technical applications to the **design** of **buildings**.

**Question 97 :**

If HEAR is written as KJHA, then MILK can written as

Difficulty : Moderate

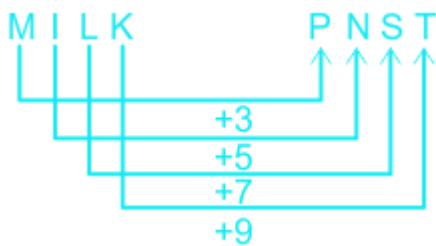
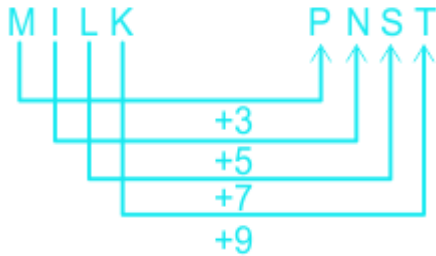
Average Time : 50 Seconds

**Options :**

1. PTNS
2. PNTS
3. PNST
4. PTSN

**Solution :**

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



**Question 98 :**

The famous camel trading event is a part of this annual fair.

**Difficulty :** Moderate

**Average Time :** 43 Seconds

**Options :**

1. Udaipur Mela
2. Thar Mela
3. Kumbh Mela
4. Pushkar Mela

**Solution :**

Correct Answer is option 4 i.e. Pushkar Mela





Pushkar Mela:

- It is an annual multi-day livestock fair and cultural fair held in the town of Pushkar.
- The fair starts with the Hindu calendar month of Kartik and ends on the Kartik Purnima, which typically overlaps with late October and early November.
- The Pushkar fair is one of India's largest camel, horse and cattle fairs.
- Apart from the trading of livestock, it is an important pilgrimage season for Hindus to the Pushkar lake.
- The Pushkar fair alone attracts over 200,000 visitors.

**Question 99 :**

Manu sold a dozen watches for Rs.1454.64 per watch and made a profit of 16%. Find the cost price of the watches?

**Difficulty : Moderate**

**Average Time : 103 Seconds**

**Options :**

1. 1254.00
2. 1362.36
3. 15048.00
4. 16348.32

**Solution :**

Correct Answer is option 3 i.e. 15048.00

Understanding	Application	Calculation
---------------	-------------	-------------

<p>Given:</p> <p>SP = Rs. 1454.64</p> <p>Profit = 16%</p>	<p><math>SP = CP \times [1 + \text{Profit}/100]</math></p> <p>CP of 1 watch = Rs. 1254</p>	<p><math>1454.64 = CP \times [1 + 16/100]</math></p> <p><math>1454.64 = 1.16CP</math></p> <p>CP = 1254</p>
<p>1 dozen = 12 pieces</p>	<p>Hence,</p> <p>CP of 1 dozen watches = Rs. 15048</p>	<p><math>1254 \times 12 = 15048</math></p>

### Question 100 :

Which among the following is the largest Freshwater Lake in India?

Difficulty : Moderate

Average Time : 182 Seconds

### Options :

1. Dal Lake
2. Thol Lake
3. Pushkar Lake
4. Wular Lake

### Solution :

Correct Answer is option 4 i.e. Wular Lake

Wular Lake:

- Wular Lake is the largest freshwater lake in India.
- It is sited in Bandipora district in Jammu and Kashmir, India.
- The lake basin was formed as a result of tectonic activity and is fed by the Jhelum River.
- The lake's size varies seasonally from 12 to 100 square miles.

Other  
lakes:

- Dal Lake: Srinagar, Kashmir
- Thol Lake: Thol Lake is an artificial lake near Thol village in Kadi in Mehsana district in the Indian state of Gujarat.
- Pushkar Lake: Pushkar Lake or Pushkar Sarovar is located in the town of Pushkar in Ajmer district of the Rajasthan.

## Rrb Ntpc CBT - 1 Previous Year Question Paper Analysis

The analysis of Rrb Ntpc CBT - 1 Previous Year Question Paper held on 2016-04-16 in the Morning exam is as follows:

1. 100 questions were moderate.
2. The safe score is 68 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 Ntpc CBT - 1 Previous Year Question Paper Topic Wise Weightage

CBT -1

## Rrb Ntpc CBT - 1 Previous Year Question Paper Tips and Tricks



1. Try to solve Rrb Ntpc CBT - 1 Previous Year Question Paper without taking any help from the solutions.
2. Rrb Ntpc 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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[Answer Key](#)  
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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 Ntpc CBT - 1 Previous Year Question Paper. She has guided her team to provide the best explanation for the question.