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 2016-04-18 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 is India's first defense satellite?

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

Options :

1. INSAT 2B

2. GSAT-7

3. GSAT-6

4. IRS - 1A

Solution :
The correct answer is option 2 i.e. **GSAT-7.**

- India's first exclusive defense satellite is **GSAT-7.**
- It is a multi-band military communications satellite developed by **ISRO** that will provide services to the Indian defence forces.
- This satellite will enable the navy to extend its blue water capabilities and stop relying on foreign satellites like Inmarsat, which provide communication services to its ships
- **GSAT-7** was launched early on 30 August 2013 atop an Ariane 5 ECA rocket from **Kourou**, French Guiana.
- India's first dedicated military satellite was put into a geosynchronous orbit, about 36,000 kilometres (22,000 mi) above Earth, five days after it was launched after three orbit-raising manoeuvres from ISRO's Master Control Facility at Hassan in Karnataka.

Question 2 :

The passenger reservation system of the Indian Railways is designed by _____.

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

Options :

1. TCS

2. CRIS

3. Google

4. CMS

Solution :

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

- The passenger reservation system of the Indian Railways is designed by **CRIS.**
- It is a total networking solution to the Indian Railways Passenger Reservation System.
- The Centre for Railway Information Systems (CRIS.) designs, develops, implements and maintains most of the important information systems of Indian Railways.
- It is located in **Chanakyapuri, New Delhi.**
- It was established by India's Ministry of Railways in 1986.
- A unique feature of CRIS is the collaboration by IT literates from Indian Railways.
- CRIS received the Prime Minister Award for Excellence in Public Administration on 21 April 2008, and the IBM Beacon and Top Star Awards for e-working on 1 May 2008.

Question 3 :

What is the chemical name given of chalk?

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

Options :

1. Calcium Sulphate

2. Calcium Nitrate

3. Calcium Carbonate

4. Calcium Phosphide

Solution :

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

- The chemical name of chalk is **Calcium Carbonate (CaCO3).**

Chalk is a soft, white, porous, sedimentary carbonate rock, a form of limestone composed of the mineral calcite.

- It reacts in acidic environments to produce Ca2+ ions and carbon dioxide or releases carbon dioxide when heated.
- Chalk is often made from coccoliths, the microscopic plates which form the skeletons of single-cell organisms that accumulate over millennia at the bottom of the sea.
- Chalk has greater resistance to weathering and slumping than the clays with which it is usually associated.

Question 4 :

What is the name of the book in the Harry Potter series written by Jack Throne to be published in mid-2016?

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

Options :

1. Harry Potter and the Cursed Child

2. Harry Potter and the Deathly Hallows

3. Fantastic Beasts and Where to Find Them

4. The Tales of Beedle the Bard

Solution :

The correct answer is option 1 i.e. **Harry Potter and the Cursed Child.**

- **Harry Potter and the Cursed Child** is the book in the Harry Potter series written by Jack Throne to be published in mid-2016.
- It is based on an original story by J. K. Rowling, John Tiffany, and Thorne.

Question 5 :

Article 29 of the Constitution of India grants which of the following rights?

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

Options :

1. Protection in respect of conviction for offences

2. Traffic in human beings prohibited

3. Protection of interests of minorities

4. Prohibits taxes on religious grounds

Solution :

The correct answer is option 3 i.e. **Protection of interests of minorities.**

- Article 29 of the Constitution of India grants Protection of interests of minorities.
- This Article protects the interests of the minorities by making a provision that any citizen/section of citizens having a distinct language, script, or culture have the right to conserve the same.
- If such sections of citizens desire to preserve their own language, script or culture, the State would not stand in their way.

More Info:-

Rights	Article
Protection in respect of conviction for offenses	**Article** 20(1)
Traffic in human beings prohibited	**Article** 23
Prohibits taxes on religious grounds	**Article** 27

Question 6 :

In which year was Facebook started?

Difficulty : Moderate   Average Time : 80 Seconds

Options :

1. 2002

2. 2004

3. 2008

4. 2009

Solution :

The correct answer is **option 2** i.e. **2004**

- Facebook was started in **2004.**
- Facebook is an American social media and technology company based in Menlo Park, California.
- The founder of Facebook is **Mark Zuckerberg**, along with fellow Harvard College students and roommates.
- It is a popular global social networking website.
- Facebook is one of the world's most valuable companies.
- It is considered one of **the Big Five technology companies** along with **Microsoft, Amazon, Apple, and Google.**

Question 7 :

What is the chemical formula of Ozone?

Difficulty : Moderate

Average Time : 51 Seconds

Options :

1. O

2. O_2

3. O_3

4. O_4

Solution :

The correct answer is option 3 i.e. O_3.

- The chemical formula of ozone is **O3**.
- Ozone is a type of gas that's made from molecules consisting of three oxygen atoms.
- It is produced naturally in the stratosphere when energetic ultraviolet (UV) radiation dissociates molecules of oxygen, O_2 into separate oxygen atoms. If a free oxygen atom collides with an oxygen molecule, it joins up, forming ozone.
- Ozone molecules can also be decomposed by ultraviolet radiation into a free atom and an oxygen molecule. Ozone is thus continuously created and destroyed in the atmosphere by UV radiation coming from the sun.

Question 8 :

What is the sound made by a seal called?

Difficulty : Moderate

Average Time : 61 Seconds

Options :

1. Bark

2. Moo

3. Screech

4. Growl

Solution :

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

- The sound made by a seal is called **bark.**

More Info:-

List Of Sounds of animals

Animals	Sounds
Lions	roar, growl
Lambs	bleat
Jackals	howl
Hens	cackle, cluck
Hares	squeak
Eagles	scream
Horses	neigh, snort, whinny, nicker
Ostriches	chirp, bark, hiss, low hum
Parrots	talk, screech, squawk
Seals	bark
Sheep	bleat
Snakes	hiss
Whales	sing
Vultures	scream
Mice	squeak and squeal
Pigs	snort, grunt, squeal, oink
Rats	squeak

Question 9 :
Who was the dentist who killed Cecil-the Lion in 2015?

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

Options :

John Walker

2. Gary Crow

3. Walter Palmer

4. Rupert Watson

Solution :

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

- **Walter Palmer** was an American dentist who shot and killed **Cecil the lion** outside Zimbabwe's Hwange National Park in 2015.
- Cecil was **13 years old** when killed.
- The famous lion Cecil was known for being unafraid of humans. Cecil lived in Hwange National Park, in Zimbabwe.
- Walter Palmer who allegedly killed the famous Cecil the Lion, reportedly paid $55,000 for the opportunity to shoot a lion.
- Hwange National Park is a Nature reserve in west Zimbabwe.
- Zimbabwe is a country in Africa and its capital is **Harare**.

Question 10 :

The energy which we get from food is measured in _____.

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

Options :

1. Calories

2. Kelvin

3. Fat

4. Amperes

Solution :

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

- The energy which we get from food is measured in **Calories.**
- The amount of energy a food contains per gram is known as its energy density.
- we can describe fat as more energy-dense than protein or carbohydrate.
- The average values of energy are expressed as the number of calories per 1 gram of the macronutrient.

Question 11 :

How many litres of blood does an adult body have?

Difficulty : Moderate

Average Time : 48 Seconds

Options :

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

Solution :

The correct answer is option 3 i.e. **5 liters.**

- The average adult has about 5 liters of blood circulating inside their body.
- In a normal adult, the red cells of about half a liter of blood are produced by the bone marrow every week.
- Almost 1 percent of the body's red cells are generated each day.

Question 12 :

Who is known as the Father of video games?

Difficulty : Moderate

Average Time : 43 Seconds

Options :

1. Karl Benz
2. Emile Berliner
3. Rudolf Diesel
4. Ralph H. Baer

Solution :

The correct answer is option 4 i.e. **Ralph H. Baer.**

- **Ralph H. Baer** is known as the Father of video games.
- He was a German-American, who shows the prototype of the first games console which was invented by him.
- He created the first prototype of what would eventually become the Magnavox Odyssey, the world's first video game console.
- The Magnavox Odyssey is the first commercial home video game console and released by Magnavox in the United States in September 1972.

Question 13 :

Which wood is used to make a cricket bat?

Difficulty : Moderate

Average Time : 54 Seconds

Options :

1. Teak
2. Willow
3. Bamboo
4. Rosewood

Solution :

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

- **Willow wood** is used to make a cricket bat.
- There are three types of Willow wood which are used to make cricket bat.
  - **Selected willow**
  - **Kashmir willow**
  - **English willow**
- Among the three, **English Willow** is the strongest, smoothest, and produces a perfect sound when it releases a shot from its touch. The most costly bats are made with the English willow and this bat is used all over the world by cricketers who officially play for their country, state, city.
- The length of the bat may be no more than 38 inches and the width no more than 4.25 inches.

Question 14 :

Which of the given below devices converts chemical energy to electrical energy?

Difficulty : Moderate

Average Time : 66 Seconds

Options :

1. Transformer
2. Battery
3. Electric Generator
4. Wheel

Solution :

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

- A battery is a device that converts chemical energy into electrical energy.

It converts chemical energy contained within its active materials directly into electric energy by means of an electrochemical oxidation-reduction reaction.

- This type of reaction involves the transfer of electrons from one material to another via an electric circuit.
- It is generally used to generate or store electric energy.

More Info:-

electrical energy converts into light energy	**Light bulb**
electrical energy converts into mechanical energy	**Fan**
electrical energy converts into heat energy	**Geyser**
electrical energy converts into sound energy	**Speaker**

Question 15 :

Who fought Ahmad Shah Abdali at the third battle of Panipat?

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

Options :

1. Mughals
2. Lodhis
3. Marathas
4. Khiljis

Solution :

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

- The third battle of Panipat was fought between the Afghan forces of **Ahmad Shah Durrani** along with his local Rohilla and other Pathan and Oudh allies, against the **Maratha Empire.**
- It was a major battle of Indian history, fought on **14th January 1761** at Panipat.
- Ahmad Shah Abdali, supported by three Indian allies — the Rohilla Najib-ud-daulah, Afghans of the Doab region, and Shuja-ud-Daula, the Nawab of Awadh.
- The Durrani Afghan forces and their allies finally won and defeated the Marathas.

The Marathas lost the third battle of Panipat due to a lack of allies.

More Info:-

Battle	Year	Between
The First Battle of Panipat	21 April 1526	Babur and the Lodi dynasty.
The Second Battle of Panipat	5 November 1556	Hem Chandra Vikramaditya and forces of Akbar.

Question 16 :
Which of the following is not a greenhouse gas?

Difficulty : Moderate   **Average Time : 82 Seconds**

Options :
1. Carbon dioxide
2. Methane
3. Chlorofluorocarbons
4. Oxygen

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

- A greenhouse gas is a gas that has the property of absorbing infrared radiation emitted from Earth's surface and reradiating it back to Earth's surface, thus contributing to the greenhouse effect.
- water vapor (the most important), ozone, carbon dioxide, methane, and nitrous oxide are the most important greenhouse gases.
- The 'greenhouse effect' is the warming of climate that results when the atmosphere traps heat radiating from Earth toward space.
- Certain gases in the atmosphere resemble glass in a greenhouse, allowing sunlight to pass into the 'greenhouse,' but blocking Earth's heat from escaping into space.

Question 17 :
What are stars primarily made of?

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

Options :

1. Qxygen and Hydrogen

2. Hydrogen and Carbon

3. Hydrogen and Helium

4. Oxygen and Helium

Solution :

The correct answer is option 3 i.e. **Hydrogen and Helium.**

- Stars primarily made of mostly very hot gas i.e. **Hydrogen and Helium** gas.
- A star is a luminous ball of hydrogen and helium gas held together by its own gravity.
- Nuclear fusion reactions in its core support the star against gravity and produce photons and heat, as well as small amounts of heavier elements.
- The Sun is the closest star to Earth.
- The twinkling of stars in the night in sky is due to the effects of our atmosphere. When starlight enters our atmosphere it is affected by winds in the atmosphere and by areas with different temperatures and densities. This causes the light from the star to twinkle when seen from the ground.

Question 18 :

On which date was the partition of India announced?

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

Options :

1. 15th Aug 1947

2. 3rd June 1947

3. 17th July 1947

4. 1st July 1947

Solution :

The correct answer is option 2 i.e. 3rd **June 1947.**

- On **3rd June 1947**, the partition of India was announced.
- **Lord Mountbatten** announced the partition of the country into India and Pakistan by an Act of the Parliament of the United Kingdom.
- On August 15, 1947, India became independent.
- The partition was caused in part by the two-nation theory presented by Shere e Bangla A.K. Fazlul Haque, due to

presented religious issues.
- The main spokesperson for the partition was Muhammad Ali Jinnah.
- Hence, Pakistan became a Muslim country, and India remained a secular country.

Question 19 :
Stainless steel was invented by _____.

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

Options :
1. William Howard Livens
2. Joseph Aspdin
3. Harry Brearley
4. James Dyson

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

- Stainless steel was invented by **Harry Brearley in 1913.**
- Harry Brearley was an English metallurgist, has been credited with inventing the first true stainless steel, which had a **12.8%** chromium content.
- He was born on 18 February 1871, Sheffield, England, and died on 14 July 1948 Torquay.

More Info:-

Person	Invention
William Howard Livens	Livens Large Gallery Flame Projectors
Joseph Aspdin	Cement manufacturer
James Dyson	Bagless vacuum cleaner

Question 20 :
The disease cirrhosis affects which organ in the body?

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

Options :

    Brain

2. Liver

3. Heart

4. Kidney

Solution :

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

- The disease cirrhosis affects the **Liver** in the body.
- Cirrhosis, also known as liver cirrhosis is a condition in which the liver does not function properly due to long-term damage.
- Hepatitis and chronic alcohol abuse are frequent causes of liver damage.
- This damage is characterized by the replacement of normal liver tissue by scar tissue.

Question 21 :

Who presented the first Union Budget in 1947?

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

Options :

1. Indra Gandhi

2. Morarji desai

3. R. K. Shanmukham Chetty

4. John Mathai

Solution :

The correct answer is option 3 i.e. **R. K. Shanmukham Chetty.**

- R. K. Shanmukham Chetty presented the first Union Budget on 26 November 1947.
- R. K. Shanmukham Chetty was an Indian lawyer, economist, and politician who served as independent India's first finance minister from 1947 to 1949, with the total revenues was mere Rs.171.15 crore, A fiscal deficit was a paltry Rs.24.59 crore. total expenditure estimated at Rs.197.29 crore, Defense expenditure at Rs.92.74 crore.
- He also served as President of India's Central Legislative Assembly from 1933 to 1935.
- The Union Budget of India also referred to as the Annual Financial Statement in Article 112 of the Constitution of India.

Question 22 :

On which network was the first SMS sent?

Difficulty : Moderate

Average Time : 61 Seconds

Options :

1. Airtel

2. Vodafone

3. Verizone

4. Digicel

Solution :

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

- From the Vodafone network, the first SMS was sent.
- Neil Papworth, a British engineer sent the first SMS from a computer to a mobile phone belonging to the then-director of Vodafone Richard Jarvis.
- The message read simply, "**Merry Christmas".**
- **SMS** stands for **Short Message Service**.

Question 23 :

McAfee is a _____?

Difficulty : Moderate

Average Time : 46 Seconds

Options :

1. Anti-virus software

2. Programming language

3. Output device

4. Computer device

Solution :

The correct answer is option 1 i.e. **Anti-virus software.**

- McAfee is anti-virus software.

McAfee is an antivirus program created and maintained by McAfee, Inc which is also known as Intel Security, and Network Associates.

- It provides a full range of security products such as antivirus, firewall, and anti-spyware programs.
- McAfee Antivirus comes with a set of features that will keep your computer free of viruses, worms, Trojans, and other malicious programs.
- This anti-virus software has also a personal firewall, a password manager, and parental controls, plus it scans your social media pages for threats.

Question 24 :

Which tennis player has been awarded the Padma Bhushan award 2016?

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

Options :

1. Sania Mirza
2. Leander Paes
3. Mahesg Bhupathi
4. Rohan bopanna

Solution :

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

- Tennis player **Sania Mirza** has been awarded the Padma Bhushan award 2016.
- She is an Indian professional tennis player, and also a former world No. 1 in the doubles discipline.
- She has won **six Grand Slam** titles in her career.
- She was appointed as the **UN Women's Goodwill Ambassador for South Asia** during the event held to mark the International Day To End Violence Against Women on 25 November 2013.
- On 1st may 2020, Sania Mirza became the first Indian to be nominated for **the Fed Cup Heart Award** from the Asia/Oceania zone along with Indonesia's Priska Medelyn Nugrorho.

Question 25 :

What does ATM stand for?

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

Options :

1. Any Time Money
2. Automated Teller Machine

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4. Analog Time Machine

Solution :

The correct answer is option 2 i.e. **Automated Teller Machine.**

- **Automated Teller Machine** is a machine that dispenses cash or performs other banking services when an account holder inserts a bank card.
- It enables customers of financial institutions to perform financial transactions, such as cash withdrawals, deposits, funds transfers, or account information inquiries, at any time and without the need for direct interaction with bank staff.
- **John Adrian Shepherd-Barron** invented ATM.
- **HSBC,** the Hongkong and Shanghai Banking Corporation bank was the first bank to introduce the ATM concept in India way back in 1987.

Question 26 :

To which dynasty did the famous patron of literature king Bhoja belong?

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

Options :

1. Chalukya

2. Chola

3. Paramara

4. Pala

Solution :

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

- From **the Paramara dynasty,** the famous patron of literature king **Bhoja** belongs.
- Bhoja was an Indian king. His kingdom was centered around the **Malwa** region in central India, where his **capital Dhara** was located.
- He was best known as a patron of arts, literature, and sciences.
- The Paramara Dynasty was founded by a chief called Upendra or Krishanaraja at the beginning of the 9th century.

Question 27 :

Who received the Man Booker Prize in 2015 for his novel 'A brief history of seven killings'?

Difficulty : Moderate

Average Time : 55 Seconds

Options :

1. Marlon James

2. Richard Flanagan

3. Arvind Adiga

4. E. O. Wilson

Solution :

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

- **Author Marlon James** received the Man Booker Prize in 2015 for his novel **'A brief history of seven killings'.**
- He is a **Jamaican writer**.
- He has won the Man Booker Prize for his novel inspired by the attempted assassination of Bob Marley in the 1970s.
- The Man Booker Prize is a literary prize awarded each year for the best original novel written in the English language and published in the United Kingdom.
- In **2019**, **Margaret Atwood** received the Man Booker Prize award for her novel '**The Handmaid's Tale'** and **Bernardine Evaristo** won Booker Prize for her novel '**Girl, Women, Other.**

Question 28 :

What is the increase in the number of workdays under the rural job guarantee scheme (MNREGA) in draught-affected areas?

Difficulty : Moderate

Average Time : 68 Seconds

Options :

1. 10

2. 25

3. 40

4. 50

Solution :

The correct answer is option 4 i.e. **50.**

- The central government will increase the number of workdays under the rural job guarantee scheme (MNREGA) in draught-affected areas from 100 to 150.
- MNREGA stands for The Mahatma Gandhi National Rural Employment Guarantee Act.

This Act is Indian labour law and social security measure that aims to guarantee the 'right to work'.

- This act was passed in **September 2005.**
- This is Launched by then (2005) prime minister **Manmohan Singh.**

Question 29 :

Who conferred the title of 'Gurudev' on Rabindranath Tagore?

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

Options :

1. Mahatma Gandhi

2. Pandit Nehru

3. Lala Lajpat Rai

4. Bal Gangadhar Tilak

Solution :

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

- Mahatma Gandhiji conferred the title of **'Gurudev'** on Rabindranath Tagore in 1915.
- Rabindranath Tagore was a polymath, poet, musician, artist, and Ayurveda-researcher from the Indian subcontinent.
- He is not only famous for his writings but also for writing the national anthem of **India and Bangladesh.**
- Rabindranath Tagore in his early childhood struggle for the educational system of that time. To help other students he started teaching students under a tree in Shantiniketan.
- Mahatma Gandhi gave this title to praise the efforts of Rabindranath in teaching students.
- Rabindranath also gave the title of '**Mahatma** ' to Gandhi Ji.

Question 30 :

What denotes offering several products for sale as one combined product?

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

Options :

1. Advertisement

2. Product mix

3. Product bundling

4. Differentiation

Solution :

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

- Offering several products for sale as one combined product is known as **Product bundling.**
- Product bundles are several individual goods or services that are sold to consumers as one combined package.
- Sometimes it is also called **"package deals".**
- Product bundles are generally made up of complementary items or, less frequently, similar items.
- Product bundling can effectively increase average order value, by selling more without incurring higher transaction costs.
- It also makes it harder for customers to price-comparison shop and bounces to the site with the absolute lowest price point.

Question 31 :

Which was the capital of the first Sri Lankan Kingdom?

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

Options :

1. Jaffna

2. Polonnaruwa

3. Anuradhapura

4. Kandy

Solution :

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

- **Anuradhapura** was the capital of the first Sri Lankan Kingdom.
- It is also the first established kingdom in ancient Sri Lanka and Sinhalese people.
- Anuradhapura was founded by King Pandukabhaya in 377 BC.
- After Sri Lanka's independence in 1948, the government outgrew the capital, Colombo.
- Sri Jayewardenepura Kotte was designated the new capital in 1977.
- **Sri Jayewardenepura Kotte** is the <u>official capital</u> of Sri Lanka.
- **Colombo** is the <u>commercial capital</u> and largest city of Sri Lanka by the population.
- Sri Lanka Currency is a **Sri Lankan rupee.**
- Sri Lanka's President is **Gotabaya Rajapaksa** and its Prime Minister is **Mahinda Rajapaksa.**

Question 32 :

Which of the following is a bad conductor of heat?

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

Options :

1. Wood
2. Diamond
3. Water
4. Mica

Solution :

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

- **Wood** is a bad conductor of heat.
- **Bad conductors** are those materials that do not allow electricity to pass through them easily.
- Rubber, Wood is the example of a bad conductor of heat and electricity so it Can be used to make electric circuits.
- **Good conductors** are those materials that allow electricity to pass through them easily.
- **Metals** and **stone** are considered good conductors since they can speedily transfer heat.

Question 33 :

Where will 2022 Commonwealth Games be played?

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

Options :

1. Glasgow
2. Durban
3. Gold Coast
4. New Delhi

Solution :

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

- **Durban** had previously considered bidding for 2022 Commonwealth Games.
- Earlier two cities initially launched bids for the games **Durban and Edmonton**.
- Edmonton withdrew its bid in February 2015.
- Durban has marked the first time the games were held in Africa and the second time a Commonwealth republic would have hosted.
- It was reported in February 2017 that Durban may be unable to host the games due to financial constraints.
- The bidding process for the 2022 Commonwealth Games was relaunched in March 2017.

The 2022 Commonwealth Games is scheduled to be held in **Birmingham, England**.

Question 34 :
Which is the form of a market where there is a lack of competition?

Difficulty : Moderate

Average Time : 63 Seconds

Options :
1. Monopoly
2. Oligopoly
3. Perfect competition
4. Marketisation

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

- A monopoly is the form of a market where there is a lack of competition.
- A monopoly is a market structure characterized by a single seller, selling a unique product in the market.
- In a monopoly market, the seller faces no competition, as he is the sole seller of goods with no close substitute.

Question 35 :
Which of the following is called 'The queen of Arabian sea'?

Difficulty : Moderate

Average Time : 47 Seconds

Options :
1. Mumbai
2. Thriuvananthapuram
3. Kochi
4. Surat

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

- Kochi is called the queen of the Arabian sea.
- It is part of the district of Ernakulam in the state of Kerala.
- It has been of strategic importance to India as it is a major port city on the southwest coast of India by the Laccadive

sea.

- It was an important trade center for spices on the western coast of India from the 14th century so it is called the queen of the Arabian sea.

More Info About Kerala

Capital	Thiruvananthapuram
Chief Minister	Pinarayi Vijayan
Governor	Arif Mohammad Khan

Question 36 :

What is the name of the castle that was built in honour of world-renowned composer Richard Wagner?

Difficulty : Moderate   Average Time : 69 Seconds

Options :

1. Balmoral Castle

2. Neuschwanstein Castle

3. Conwy castle

4. Kronborg

Solution :

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

- **Neuschwanstein castle** was built in honour of world-renowned composer Richard Wagner and many rooms in the castle's interior were inspired by Wagner's characters.
- This is one of the most visited castles in Germany and one of the most popular tourist destinations in Europe.
- Its look like a fairytale castle.
- Every year over 1,300,000 people cross its gate.
- This fairytale look of the Neuschwanstein castle inspired Walt Disney to create the Magic Kingdom.

Question 37 :

Evaporation of water from leaves of a plant is called _____?

Difficulty : Moderate   Average Time : 58 Seconds

Options :

1. Transpiration

Respiration

3. Perspiration

4. Evaporation

Solution :

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

- Evaporation of water from leaves of a plant is called **Transpiration.**
- It is the process by which **water** is carried through **plants** from roots to small pores on the underside of **leaves**, where it changes to vapor and is released to the atmosphere.
- It is the main driver of water movement in the xylem.
- Water is absorbed through the root hairs, is transported through the plant due to osmosis, and exits through the stomata and evaporates.
- Transpiration is important because water is needed for photosynthesis and because water cools a plant off.

Question 38 :

How do you know the Yarlung Tsangpo better?

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

Options :

1. Ganges

2. Brahmaputra

3. Mahanadi

4. Sutlej

Solution :

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

- The Yarlung Tsangpo is the upper stream of the **Brahmaputra River.**
- It is the longest river of Tibet Autonomous Region, China.
- In Chinese, the Yarlung Tsangpo River means water flowing down from the crest.

Question 39 :

The famous Sanchi Stupa was commissioned by _____.

Difficulty : Moderate   **Average Time : 41 Seconds**

Options :

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Bindusara

2. Ashoka

3. Chandragupta Maurya

4. Kanishka

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

- The famous Sanchi Stupa was commissioned by emperor **Ashoka** the Great in the **3rd century BCE.**
- It is a religious place with historical and archaeological significance.
- Sanchi Stupa is famous in the world for stupas, monolithic Asokan pillar, temples, monasteries, and sculptural.
- It is the oldest stone structure in India.
- The site of Sanchi was discovered in the year 1818 by General Taylor and an archaeological museum was established in 1919 by Sir John Marshall.

Comprehension :
Comprehension: The following questions are based on the information given below: An advertising agency finds that, of its 170 clients, 115 read Indian Express, 110 read The Hindu and 130 read Times of India. Also 85 read Indian Express and Times of India, 75 read Indian Express and The Hindu, 95 read The Hindu and Times of India and 70 raed all the three.

Question 40 :
How many read only Indian Express?

Difficulty : Moderate   Average Time : 69 Seconds

Options :
1. 15

2. 25

3. 5

4. 10

Solution :
The correct answer is option 2 i.e. 25

Understanding

No. of people who read Hindu = 110
No. of people who read TOI = 130
No. of people who read IE = 115
Now,
No. of people who read Hindu and TOI both is = 95
No. of people who read TOI and IE both is = 85
No. of people who read Hindu and IE both is = 75

All three read = 70

Application
So, only Hindu is = (110 + 70) - (95 + 75) = 180 - 170 = 10   Only TOI is = (130 + 70) - (95 + 85) = 200 - 180 = 20   Only IE is = (115 + 70) - (85 + 75) = 185 - 160 = 25

Comprehension :

Comprehension: The following questions are based on the information given below: An advertising agency finds that, of its 170 clients, 115 read Indian Express, 110 read The Hindu and 130 read Times of India. Also 85 read Indian Express and Times of India, 75 read Indian Express and The Hindu, 95 read The Hindu and Times of India and 70 raed all the three.

Question 41 :
How many read Indian Express and Times of India but not The Hindu?

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

Options :
1. 10

2. 20

3. 15

4. 30

Solution :
The correct answer is option 3 i.e. 15

Understanding

No. of people who read Hindu = 110 No. of people who read TOI = 130 No. of people who read IE = 115 Now, No. of people who read Hindu and TOI both is = 95 No. of people who read TOI and IE both is = 85 No. of people who read Hindu and IE both is = 75 All three read = 70
Application
Read Indian Express and Times of India but not The Hindu = 85 - 70 = 15

Comprehension :

Comprehension: The following questions are based on the information given below: An advertising agency finds that, of its 170 clients, 115 read Indian Express, 110 read The Hindu and 130 read Times of India. Also 85 read Indian Express and Times of India, 75 read Indian Express and The Hindu, 95 read The Hindu and Times of India and 70 raed all the three.

Question 42 :

How many read only The Hindu?

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

Options :

1. 5

2. 10

3. 25

4. 35

Solution :

The correct answer is option 2 i.e. 10

Understanding

No. of people who read Hindu = 110
No. of people who read TOI = 130
No. of people who read IE = 115
Now,
No. of people who read Hindu and TOI both is = 95
No. of people who read TOI and IE both is = 85
No. of people who read Hindu and IE both is = 75

All three read = 70

Application
So, only Hindu is = (110 + 70) - (95 + 75) = 180 - 170 = 10
Only TOI is = (130 + 70) - (95 + 85) = 200 - 180 = 20
Only IE is = (115 + 70) - (85 + 75) = 185 - 160 = 25

Comprehension :

Read the following table carefully and answer the questions given below: The percentage change in sales of six departmental stores from 2010 to 2012 is shown in the following table: Store Percentage Change From 2010 to 2011 From 2011 to 2012 P +20 -20 Q -20 +9 R +5 +12 S -7 -15 T +17 -8 U +21 +9

Question 43 :

In 2012 which of the stores had greater sales than any other stores?

Difficulty : Moderate

Average Time : 72 Seconds

Options :

1. R

2. P

3. T

4. Q

Solution :

The correct answer is option 4 i.e. Q

Understanding	Application

Change from 2011 to 2012 P = +20 to -20. (decrease by 40) Q = -20 to +9 (increase by 29) R = +5 to +12 (increse by 7) S = + 17 to -8 (decrease by 25) T = +21 to +9 (decrease by 12)	Only Q and R stores sales increase from 2011 to 2012. Maximaum increse by Q store sales. Hence, In 2012 Q store sales has a maximum.

Comprehension :
Read the following table carefully and answer the questions given below: The percentage change in sales of six departmental stores from 2010 to 2012 is shown in the following table: Store Percentage Change From 2010 to 2011 From 2011 to 2012 P +20 -20 Q -20 +9 R +5 +12 S -7 -15 T +17 -8 U +21 +9

Question 44 :
In store T the sales for 2011 amounted to about what percentage of the sales for 2012?

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

Options :
1. 113
2. 109
3. 105
4. 101

Solution :

The correct answer is option 2 i.e. 9%

Understanding	Application
In-store T Let P = 100 in 2010 Increase by 17 % from 2010 to 2011 Amount = 100 + (100 × 17/100) = 100 + 17 = 117 Principal for 2011 to 2012 and sales amount of 2011 is 117 Now Decreae by 8% from 2011 to 2012 Amount = 117 - (117 × 8/100) = 117 - 9.36 = 107.64 Sales amount of 2012 is 107.64	Now, 2011 amount is whats %age of 2012 amount i.e. 117 is what %age of 107.36 So, Difference = 117 - 107.36 = 9.64 %age = (9.64/107.36) × 100 = 8.97 % Hence, the percentage of the sales value of 2011 w.r.t to the sales value of 2012 is 9% (approx value).

Comprehension :

Read the following table carefully and answer the questions given below: The percentage change in sales of six departmental stores from 2010 to 2012 is shown in the following table: Store Percentage Change From 2010 to 2011 From 2011 to 2012 P +20 -20 Q -20 +9 R +5 +12 S -7 -15 T +17 -8 U +21 +9

Question 45 :

Sales in store P amounted to Rs. 80 lakhs in 2010. What was the sales amount of the same store in 2012?

Difficulty : Moderate

Average Time : 83 Seconds

Options :

76.8 lakhs

2. 78.6 lakhs

3. 80 lakhs

4. 74 lakhs

Solution :

The correct answer is option 1 i.e. 76.8 lakhs

Understanding	Application
Store P In 2010 Principal = 800000 During 2010 to 2011 increase by 20% (given) During 2011 to 2012 decrease by 20% (given) Note: If the value of a number is first increased by x % and later decreased by x % then net change always decrease which is equal to	$x^2/100$ here, x = 20 so, $20^2/100$ = 400/100 = 4% (decrease) Now, Amount = 800000 - 800000 × 4/100 = 800000 - 8000 × 4 = 800000 - 32000 = 768000 Hence, the sales amount of the P store in 2012 is 76.8 lakhs

Question 46 :

Ramesh sold a phone at a loss of 5%. Had he sold it for Rs. 200 more, he would gave gained 15%. To gain 25%, he should sell t for:

Difficulty : Moderate

Average Time : 72 Seconds

Options :

1. Rs. 1175

Rs. 1150

3. Rs. 1225

4. Rs. 1250

Solution :

The correct answer is option 4 i.e. Rs 1250

Understanding
-5% to +15% = 20%
20% = Rs 200 (given)
Cost price = 100%
100% = (200/20) 100
= Rs. 1000

Application
For 25% profit
125%
100% = 1000
125% = (1000/100) × 125
= Rs 1250

Question 47 :

How long will Ramesh take to run round a square park of edge 50 metres, if he runs at the rate of 18 km/hr?

Difficulty : Moderate

Average Time : 47 Seconds

Options :

1. 40 sec

2. 20 sec

3. 80 sec

4. 160 sec

Solution :

The correct answer is option 1 i.e. 40 sec

Understanding
Side of square = a = 50 m
Perimeter of square = track length of the park
Perimeter of square = 4a = (4 × 50) m = 200 m
Track length = Distance = 200 m
Speed = 18 km/hr = [18 × (5/18)] m/s = 5 m/sec.
Application
Time = Distance/ speed = (200/5) sec. = 40 sec.

Question 48 :

Sita starts calculate sum of all odd natural numbers less than 72. What result does she get?

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

Options :

1. 1196

2. 1296

3. 1331

4. 1276

Solution :

The correct answer is option 2 i.e. 1296

Understanding

Sum of odd natural numbers = n^2 n = number of numbers   There are 36 odd numbers before 72.   Numbers of odd number = 36
Application
sum of all odd natural numbers less than 72 = 36^2 = 1296

Question 49 :

sin6A + cos6A -1 is equal to

Difficulty : Moderate

Average Time : 46 Seconds

Options :

1. $3\sin^2 A\cos^2 A$

2. $1-3\sin A\cos A$

3. $1+3\sin^2 A\cos^2 A$

4. 0

Solution :

The correct answer is option 4 i.e. 0

Understanding
We know that, $\sin^2 x + \cos^2 x = 1$ Here, $\sin^6 A + \cos^6 A -1$ $(\sin^3 A)^2 + (\cos^3 A)^2 - 1$
Application

$$(\sin^3 A)^2 + (\cos^3 A)^2 - 1$$

$$1 - 1 = 0$$

Question 50 :

If two complementary angles are in the ratio of 2:3, find the ratio of square of smaller angle to square of greater angle.

Difficulty : Moderate

Average Time : 59 Seconds

Options :

1. 3:2

2. 9:11

3. 4:5

4. 4:9

Solution :

Correct answer is Option 4 i.e. **4:9**

We know that,

Sum of complementary angles = 90°

Let two angles are 2x and 3x

So, 2x + 3x = 5x = 90

x = 18

So angles are, 36 and 54

So the answer is

$36^2 : 54^2 = 4:9$

Question 51 :

If 15 persons can do a job in 30 days, then 30 persons with twice the efficiancy can do the same job in how many days?

Difficulty : Moderate

Average Time : 44 Seconds

Options :

1. 7 Days

2. 3.5 Days

5 Days

4. 7.5 Days

Solution :

The correct answer is option 4 i.e. 7.5 Days

Understanding
Let,
Total work = 15 × 30 = 450
Efficiency of 1 man = (450/15 × 30) = 1
When efficiency is twice = 1 × 2 = 2
and
Number of workers = 30
Application
Number of days = Total work/(efficiency × Number of workers)
= 450/(2 × 30) = 450/60 = 7.5 Days

Question 53 :

Five women can do a work in thirty six days. If the ratio between the capacity of a man and a woman is 3:1, then find how many days it will take 5 men to complete the same work?

Difficulty : Moderate

Average Time : 56 Seconds

Options :

1. 12 days

2. 15 days

3. 18 days

4. 108 days

Solution :

12 days

Question 54 :

The mean of 14 observation is 11. One more observation is included and the new mean becomes 12. The 15thobservation is

Difficulty : Moderate

Average Time : 30 Seconds

Options :

1. 20
2. 24
3. 26
4. 28

Solution :

The correct answer is option 3 i.e. 26

Understanding
Formula:
Mean = Sum of numbers/ total numbers
Given,
Total numbers = 14
Mean = 11
After 1 number add
Total number = 14 + 1 = 15
New mean = 12
Application
Sum of 14 numbers = 14 × 11 = 154
Sum of 15 numbers = 15 × 12 = 180
15th number = Sum of 15 numbers - Sum of 14 numbers
= 180 - 154 = 26

Question 55 :

The mean of a distribution is 11 and the standard deviation is 5. What is the value of the coefficient variation?

Difficulty : Moderate

Average Time : 53 Seconds

Options :

1. 45.45%

2. 35.35%

3. 25.25%

4. 55.55%

Solution :

The correct answer is option 1 i.e. 45.45%

Understanding
Formula:
coefficient variation = (standard deviation ÷ mean) ×100
Given,
standard deviation = 5
Mean = 11
Application
coefficient variation = (5/11) ×100   = 45.45%

Question 56 :

Sunil and Gopal are partners in a business. Sunil invests Rs. 20,000 for 9 months and Gopal invests Rs. 30,000 for 12 months. Find the share of Sunil from the profit of Rs. 60,000.

Difficulty : Moderate

Average Time : 47 Seconds

Options :

1. Rs. 15000

2. Rs. 18000

3. Rs. 25000

Rs. 20000

Solution :

The correct answer is **option 4** i.e. **Rs 20000**

Understanding
Total amount = Investment amount × Time period
Sunil's investment = 20000 × 9 = 180000
Gopal's investment = 30000 × 12 = 360000
Profit = S : G = 180000 : 360000 = 1 : 2
Total profit = 1 + 2 = 3
Here, 3 = 60000 (given)
Application
Profit amount of Sunil = (60000/3) × 1 = Rs 20000

Question 57 :

By dividing 14528 by a certain number, Suresh gets 83 as quotient and 3 as remainder. What is the divisor?

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

Options :

1. 165

2. 185

3. 195

4. 175

Solution :

The correct answer is option 4 i.e. 175

Understanding

Formula: Divisor = (Dividend - Remainder)/Quotient Given, Dividend = 14528 Quotient = 83 Remainder = 3
Application
Divisor = (14528 - 3) /83 = 14525/83 = 175

Question 58 :
For what value of C2, the system of equation 6x+2y=2 & 3x+y=C2 will be coincident?

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

Options :

1. 4

2. 0

3. 2

4. 1

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

Understanding
Given 6x+2y=2 ....(i) 3x+y=C_2 .....(ii)

Application
Divide equation (i) by 2 on both side (6x+2y)/2 = 2/2 3x + y = 1 ....(iii) Compare equation (ii) and (iii) so, $C_2 = 1$

Question 59 :

If the standard deviation of a population is 7, what would be the population variance?

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

Options :

1. 14

2. 21

3. 49

4. 28

Solution :

The correct answer is option 3 i.e. 49

Understanding
Formula: Standard deviation = (Variance) Given, Standard deviation = 7
Application

Variance = (Standard deviation)^2

= 7^2 = 49

Question 60 :

When Vijay sells 12 pens, he gains the selling price of 2 pens. Calculate his % profit?

Difficulty : Moderate

Average Time : 43 Seconds

Options :

1. 15%

2. 20%

3. 18%

4. 12%

Solution :

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

Understanding
Let selling price of 1 pen is Rs 100
Selling price of 12 pen = 100 × 12 = 1200
Profit amount = Selling price of 2 pen = 100 × 2 = 200
Cost price = Selling price - Profit amount
= 1200 - 200 = Rs 1000
Application
Profit % = (Profit/CP) 100
= (200/1000) 100
= 20%

Question 61 :

A wholesaler sold a water purifier at a loss of 40%. If the selling price has been increased by Rs. 125, then wholesaler will get the profit of 10%. What was the cost price of the purifier?

Difficulty : Moderate

Average Time : 54 Seconds

Options :

1. Rs. 250
2. Rs. 225
3. Rs. 275
4. Rs. 300

Solution :

Rs. 250

Question 62 :

The product of the ages of Swati and Aparna is 120. If thrice the age of Aparna is less than Swati's age by 2 years, find the age of Swati.

Difficulty : Moderate

Average Time : 32 Seconds

Options :

1. 18 years
2. 20 years
3. 24 years
4. 16 years

Solution :

The correct answer is **option 2** i.e. **20 years**

Understanding

Let,
Swati's age = a
Aparna's age = b
Given
a × b = 120 ...(i) and
3b = a - 2
a = 3b + 2 ...(ii)
Application
Put equation (ii) in equation (i), we get
b × (3b + 2) = 120
$3b^2$ + 2b - 120 = 0
$3b^2$ - 18b + 20b - 120 = 0
3b (b - 6) +20 (b - 6) = 0
b = -20/3 and 6
Age is not in negative form so, b is equals to 6
Swati's age = 120/ Aparna's age
= 120/6 = 20 years

Question 63 :

The ratio between the speeds of two buses is 11:9. If the second bus runs 270 kms in 15 hours, then the speed of the first bus is ?

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

Options :

1. 23 km/hr

2. 11 km/hr

3. 2 km/hr

22 km/hr

Solution :

The correct answer is option 4 i.e. 22 km/hr

Understanding
First bus speed = A = x km/hr Second bus speed = B = 270/15 = 18 km/hr Ratio of A:B = 11:9
Application
A:B = 11:9 A = (11/9) × 18 = 22 km/hr

Question 64 :

Two numbers are in the ratio 5 : 6. When 6 is added to each, the ratio becomes 7 : 8 then the numbers are?

Difficulty : Moderate

Average Time : 49 Seconds

Options :

1. 10 & 12

2. 20 & 24

3. 15 & 18

4. 5 & 6

Solution :

The correct answer is **option 3** i.e. **15 & 18**

Understanding

Let,

First number = 5x

Second Number = 6x

When Add both by 6

(5x + 6) : (6x + 6) = 7 : 8 (given)

8 (5x + 6) = 7 (6x + 6)

40x + 48 = 42x + 42

2x = 6

x = 3

Application

First number = 5 × 3 = 15

Second number = 6 × 3 = 18

Question 65 :

Find the simple interest on Rs. 50 for 6 months at the rate of 10 paise per rupee per month.

Difficulty : Moderate

Average Time : 53 Seconds

Options :

1. Rs. 35

2. Rs. 40

3. Rs. 25

4. Rs. 30

Solution :

The correct answer is option 4 i.e. Rs 30

Understanding

Given,

Intrest of Re 1 is 10 paisa in 1 month

Total amount = Rs 50

Time = 6 month

Application

Amount is Rs 50 i.e 50 times of Re.1

Intrest amount Also be 50 Times

10 Paisa × 50 = 500 paisa

= Rs. (500/100) = Rs 5

1-month interest amount Of Rs 50 is Rs 5

6 Month interest amount of Rs 50 = 6 × 5 = Rs 30

Question 66 :
What are the components of $(x6-x4-x5-x4+x2-4)$?

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

Options :

1. $(x-1)$

2. $(x+1)$

3. Both $(x-1)$ & $(x+1)$

4. Neither $(x-1)$ & $(x+1)$

Solution :
The correct answer is option 4 i.e.Neither $(x-1)$ & $(x+1)$

we can not break this equation into components.

Question 67 :
An angle is 30o more than one half of its complement. Find the difference between the greater and the smaller angles.

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

Options :

1. 10°
2. 20°
3. 30°
4. 25°

Solution :

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

Let angle = x

complement angle = 90 - x

according to question

x = {(90 - x)/2} + 30

3x = 150

x = 50

smaller angle = 90 - 50 = 40

The difference between the greater and the smaller angle = 50 - 40 = 10°

Question 68 :
If the angles of a triangle are in the ratio of 2:3:7, then find the ratio of the greatest angle to the smallest angle.

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

Options :

1. 7:2
2. 2:3
3. 7:1
4. 3:5

Solution :

The correct answer is option 1 i.e. 7:2

Understanding

Given,   Ratio of all three angles is 2:3:7   Ratio of greatest angle to the smallest angle   i.e   7:2 (which is laid in given term)
Application
Hence,   Greatest angle: Smaller angle = 7:2

Question 69 :

If sunnita earns 75/4% more than her boyfriend, find the approximate % her boyfriend earns less than sunita.

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

Options :

1. 16%

2. 14%

3. 25%

4. 11%

Solution :

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

Understanding
Let,   Sunita's boyfriend salary = Rs 100   Sunita's salary = 100 + [{75/(4 × 100)} × 100]   100 + 18.75 = Rs 118.75   Difference = 18.75

Application
Sunita's boyfriend less salary % of sunita = (18.75/118.75) 100
= 187500/11875 = 15.78%
16% is approx value.

Question 70 :

For real a, b and c if a2+b2+c2 = ab+bc+ca, then find the value of (a+b+c)2

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

Options :

1. $9a^2$
2. $81a^2$
3. $27a^2$
4. $243a^2$

Solution :

The correct answer is option 1 i.e. $9a^2$

Understanding
Take
a = b = c
Given
$a^2 + b^2 + c^2 = ab + bc + ca$
$a^2 + a^2 + a^2 = aa + aa + aa$
$3a^2 = 3a^2$
(a = b = c is satisfied)
Application

$$(a+b+c)^2$$

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

$$= (3a)^2$$

$$= 9a^2$$

Question 71 :

Find 150% of X, if X is the least number which when divided by 6,7,8,9 and 12 remainders 2,3,4,5 and 8 respectively.

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

Options :

1. 750

2. 500

3. 1000

4. 1200

Solution :

The correct answer is option 1 i.e. 750

LCM of 6, 7, 8,9 and 12 is 504

since the difference between divisor and remaindar is constant, hence we subtract that difference from LCM.

The difference between divisor and remaindar = 4

hence x = 504 - 4 = 500

150% of x = 500 × 1.5 = 750

Question 72 :

If 3.5x = 0.07y, then find the result of [y-x/y+x]

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

Options :

1. 51/49

2. 49/53

3. 49/51

Solution :

The correct answer is option 3 i.e. 49/51

$3.5x = 0.07y$

$y/x = 50$........(i)

Adding 1 on both side in eq.(i)

$(y+x)/x = 51$.........(ii)

subtracting 1 from eq. (i)

$(y-x)/x = 49$........(iii)

on performing (iii)/(ii)

$(y-x)/(y+x) = 49/51$

Question 73 :

Which of the following ratio is greatest?

Difficulty : Moderate

Average Time : 42 Seconds

Options :

1. 7 : 15
2. 15:23
3. 17:25
4. 21:29

Solution :

The Correct Answer is **Option 4** i.e **21:29.**

The given ratios are: 7: 15, 15:23, 17:25 and 21:29.

$7: 15 = 7/15 = 0.47$

$15:23 = 15/23 = 0.65$

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17:25 = 17/25 = 0.68

21:29 = 21/29 = 0.72

Hence, The greatest ratio among the given options is 21:29 = **0.72**

Question 74 :

The following questions are based on the information given below: There are six members in a family. One couple has parents and their children in the family. Arjun is the son of Raju and Elamathi is the daughter of Arjun. Divya is the daughter of Rani who is the mother of Elamathi and Banu is the mother of Arjun. What relationship to Divya and Elamathi bear to each other respectively?

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

Options :

1. Sisters
2. Mother and Daughter
3. Grandmother and Granddaughter
4. Cannot be determined

Solution :

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

Concept	Understanding
Blood Relations	

In the Diagram, the circle represents Male while Square represents Female.

As visible from the diagram Divya and Elamathi are sisters since they are the children of Arjun and Rani.

Comprehension :

Comprehension: The following questions are based on the information given below: There are six members in a family. One couple has parents and their children in the family. Arjun is the son of Raju and Elamathi is the daughter of Arjun. Divya is the daughter of Rani who is the mother of Elamathi and Banu is the mother of Arjun.

Question 75 :

Which of the following pairs is the parents of the children?

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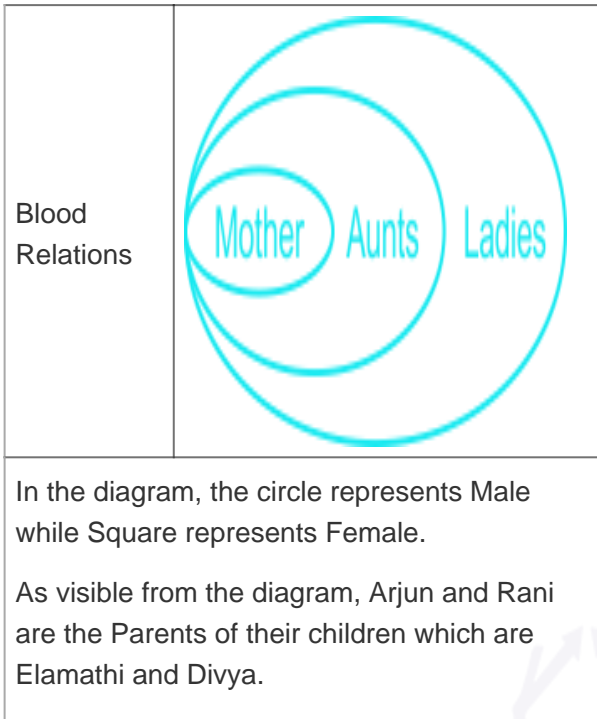
Options :

1. Raju & Banu

2. Arjun & Banu

3. Raju & Rani

4. Arjun & rani

Solution :

The correct answer is **Option 4,** i.e. **Arjun & rani.**

Concept	Understanding

Blood Relations	
	In the diagram, the circle represents Male while Square represents Female. As visible from the diagram, Arjun and Rani are the Parents of their children which are Elamathi and Divya.

Comprehension :

Comprehension: The following questions are based on the information given below: There are six members in a family. One couple has parents and their children in the family. Arjun is the son of Raju and Elamathi is the daughter of Arjun. Divya is the daughter of Rani who is the mother of Elamathi and Banu is the mother of Arjun.

Question 76 :

How many female members in the family?

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

Options :

1. 2

2. 3

3. 4

4. cannot be determined

Solution :

The correct answer is **Option 3,** i.e. **4.**

Concept	Understanding
Blood Relations	

| In the diagram, the circle represents Male while Square represents Female.

As visible from the diagram, Square represent female so there are 4 females in the family which are as Divya, Elamathi, Rani and Banu. ||

Question 77 :

Select the correct set of symbols which will fit in the given equation?   5   0   3   5 = 20

Difficulty : Moderate

Average Time : 61 Seconds

Options :

1. +, - , +

2. ×, + , ×

3. -, + , ×

4. ×,×,×

Solution :

The correct answer is **Option 3**, i.e. **-, + , ×.**

Concept	Understanding

Symbols Coding	If we put the symbol mentioned in Option 3 we get 5 - 0 + 3 X 5 = 5-0+15=20.

Question 78 :

Find the LCM of 3.2, 2.72, 1.28 and 1.44

Difficulty : Moderate

Average Time : 45 Seconds

Options :

1. 1958.4

2. 195.84

3. 1.9584

4. 19.584

Solution :

The correct answer is **Option 1**, i.e. **1958.4.**

Concept	Understanding
Number System	First, let's convert them into fractions so we will get 32/10, 272/100, 128/100 and 144/100 now the formula for finding the LCM of a fraction is =LCM (of Numerators) / HCF (of Denominators) =LCM (32,272,128,144)/HCF (10,100,100,100) =1958.4

Question 79 :

Based on the analogy given, find the missing pair from the given options. 32 : 13 : : _____:_____

Difficulty : Moderate

Average Time : 51 Seconds

Options :

1. 51 : 36
2. 83 : 121
3. 71 : 81
4. 47 : 65

Solution :

The correct answer is **Option 4**, i.e. **47: 65.**

Concept	Understanding
Analogy	

Question 80 :

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

Difficulty : Moderate

Average Time : 41 Seconds

Options :

1. Hawaii
2. Cuba
3. Island
4. Greenland

Solution :

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

Concept	Understanding
Classification	Hawaii, Cuba, and Greenland belong to the class of Island.

Question 81 :

Rearrange the jumbled up letters in their natural sequence and find the odd one out.

Difficulty : Moderate

Average Time : 44 Seconds

Options :

1. UTNA
2. EINEC
3. OMEHRT
4. ROBEHRT

Solution :

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

Concept	Understanding
Dictionary Based	When we rearrange the given word in their natural sense then we get 1) UTNA AUNT 2) EINEC NIECE 3) OMEHRT MOTHER 4) ROBEHRT BROTHER As we can see Except for Brother, all are females hence Option 4 will be the correct option.

Question 82 :

An Assertion (A) and a Reason (R) are given below. Assertion (A): We feel comfortable in the hot and humid climate. Reason (R): Sweat evaporates faster in a humid climate. Choose the correct option.

Difficulty : Moderate

Average Time : 61 Seconds

Options :

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 false

Solution :

The correct answer is **Option 4**, i.e. **Both A and R are false.**

Concept	Understanding
Data Sufficiency	The assertion is False since we start to sweat and feel uncomfortable in a hot and humid climate The reason is also false since in humid climate already a lot of moisture is present outside hence the rate of evaporation is decreased.

Question 83 :

Rearrange the jumbled up letters in their natural sequence and find the odd one out.

Difficulty : Moderate

Average Time : 63 Seconds

Options :

1. LAFC

2. UKCGIDLN

3. RILNIGHE

4. BCU

Solution :

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

Concept	Understanding

Sentence Jumbles	The given words can be arranged in their natural sense in the following way: 1) LAFC CALF 2) UKCGIDLN DUCKLING 3) RILNIGHE No word can be made 4) BCU CUB Hence Option 3 will be the answer.

Question 84 :

Choose the pair which is related in the same way as the words in the first pair from the given choices Mosquito : Malaria :
:_____ : _____

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

Options :

1. Housefly : Food

2. Road : Accident

3. Soil : Erosion

4. Tobacco : Cancer

Solution :

The correct answer is **Option 4**, i.e. **Tobacco : Cancer.**

Concept	Understanding
Analogy	As Malaria is caused by the bite of the female Mosquito in a similar way Certain type of Cancer is caused by Tobacco.

Question 85 :

In the following expression '' stands for '>'; '' stands for''; '' stands for 'not greater than'; '?' stands for 'not less than'; ''stands for '='. If 3C ? 2A and B C, then which of the following statement is true?

Difficulty : Moderate

Average Time : 56 Seconds

Options :

1. 3 2A

2. B A

3. 3B 2A

4. 2A 3B

Solution :

The correct answer is **Option 3**, i.e. **3B 2A.**

Concept	Understanding
Coding-Decoding	3C? 2A implies 3C >= 2A which means C>=2A/3 and B C implies B > C. so substitute the value of C in terms of A in the last equation given we get: B>=2A/3 which means 3B>=2A which is denoted by 3B 2A

Question 86 :

If NCLAGJ stands for PENCIL, then AMJMSP stands for _____

Difficulty : Moderate

Average Time : 59 Seconds

Options :

1. ERASER

2. PAPERS

3. KOLOUR

COLOUR

Solution :

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

Concept	Understanding
Coding-Decoding	The pattern followed here is N+2 = P C+2=E L+2=N A+2=C G+2=I J+2=L hence AMJMSP will follow the same pattern which is as follows: A+2=C M+2=O J+2=L M+2=O S+2=U P+2=R

Question 87 :

Based on the analogy given, find the missing word from the given options. Mother : Child: : Clouds :?

Difficulty : Moderate

Average Time : 60 Seconds

Options :

1. Rain

2. Thunder

Water

4. Weather

Solution :

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

Concept	Understanding
Analogy	As Mother give birth to the Child in the similar way Rain is caused by Clouds.

Question 88 :

If IRON is written as GOKI, then KNIFE may be written as.

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

Options :

1. IKAEY

2. IEKAY

3. IKEAY

4. IAKEY

Solution :

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

Concept	Understanding

Coding-Decoding	The pattern followed here is G+2=I O+3=R K+4=O I+5=N hence the pattern followed here is I+2=K K+3=N E+4=I A+5=F Y+6=E

Question 89 :

An Assertion(A) and a Reason(R) are given below. Assertion (A): In India judiciary is independent of the executive. Reason(R): Judiciary favors the government and helps in the implication of its plans. Choose the correct option.

Difficulty : Moderate   **Average Time : 61 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 false

Solution :

The correct answer is **Option 1**, i.e. **A is true but R is false.**

Concept	Understanding

Data Sufficiency	The assertion is right since according to the constitution of India judiciary is independent of the executive.
	The reason is False since Judiciary works to safeguard the fundamental rights of the Constitution and implementation of the Constitution of India

Question 90 :

If BORDER is coded as 579649, then ORDER can be coded as

Difficulty : Moderate

Average Time : 59 Seconds

Options :

1. 79469

2. 79649

3. 76949

4. 79667

Solution :

The correct answer is **Option 2**, i.e. **79649.**

Concept	Understanding

Coding-Decoding	The code given to the alphabets are as follows: B -5 O- 7 R-9 D-6 E-4 R-9 hence the code for the word ORDER will be as follows: O-7 R-9 D-6 E-4 R-9

Question 91 :

If the given interchanges namely: signs + and ÷ and numbers 2 and 4 are made in signs and numbers, which one of the following would be correct?

Difficulty : Moderate

Average Time : 56 Seconds

Options :

1. 4+2÷6=15

2. 2+4÷6=8

3. 2+4÷3=3

4. 4÷2+3=4

Solution :

The correct answer is **Option 2**, i.e. **2+4÷6=8.**

Concept	Understanding
Coding-Decoding	According to the given statement of the Question, 2 must be interchanged with 4 while + will be interchanged with ÷. Hence by following this we get: 2+4÷6 can be written as 4÷2+6=2+6=8.

Question 92 :

If 'p' means 'divided by' , 'T' means 'add', 'M' means 'subtract', 'D' means 'multiplied by', then what will be the value of the following expression? 12 M 12 D 28 P 7 T 15

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

Options :

1. -21

2. 15

3. 30

4. -15

Solution :

The correct answer is **Option 1**, i.e. **-21.**

Concept	Understanding
Coding-Decoding	According to the given pattern we can rewrite **12 M 12 D 28 P 7 T 15** as 12-12 ×28 ÷7+15= 12-12×4+15=12-48+15=-21

Question 93 :

If STUDENT is coded as 103, what is the code for SCHOOL?

Difficulty : Moderate

Average Time : 43 Seconds

Options :

1. 72
2. 27
3. 37
4. 73

Solution :

The correct answer is **Option 1**, i.e. **72.**

Concept	Understanding
Coding-Decoding	The pattern followed here is S=19 T=20 U=21 D=4 E=5 N=14 T=20 hence we add all of them (19+20+21+4+5+14)=103 so going by the same pattern we have SCHOOL will be coded as (19+ 3+ 8+ 15 +15 + 12) = 72

Question 94 :

Based on the analogy given, find the missing number from the given options. 7528 : 5362 : 4673 : ?

Difficulty : Moderate

Average Time : 50 Seconds

Options :

2351

2. 2541

3. 2451

4. 2531

Solution :

The correct answer is **Option 3**, i.e. **2451.**

Concept	Understanding
Analogy	The pattern followed here is 7528-2222=5362 hence 4673 will give 4673-2222=2451

Question 95 :

An Assertion (A) and a Reason (R) are given below. Assertion(A): Earthworms are not good for Agriculture. Reason(R): Earthworms break down the soil into fine particles and make it soft. Choose the correct options.

Difficulty : Moderate   **Average Time : 46 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 false.

Solution :

The correct answer is **Option 3**, i.e. **A is false but R is true.**

Concept	Understanding

Assumption/Interference/Conclusion	The assertion is false since Earthworms are really good for agriculture since they break down the soil into fine particles and make it soft and increase the fertility of the soil. Hence Reason is true.

Question 96 :

MATHEMATICS is related to NUMBERS in the same way HISTORY is related to_____.

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

Options :

1. EVENTS

2. PEOPLE

3. WARS

4. DATES

Solution :

The correct answer is **Option1**, i.e. **EVENTS.**

Concept	Understanding
Analogy	We encounter a lot of numbers in Mathematics similarly we encounter a lot of events in History.

Question 97 :

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: A: All mothers are aunts.   B: All aunts are ladies. Conclusion : I. All ladies are mothers.   II. All ladies are aunts. Decide which of the options logically follows the given statement.

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

Options :

1. Only conclusion I follows

2. Only conclusion II follows

3. Both conclusion I and II follows

4. Neither conclusion I nor II follows

Solution :

The correct answer is **Option 4**, i.e. **Neither conclusion I nor II follows.**

Concept	Understanding
Syllogism	
The above Venn Diagram is based upon the Statements given in the Question. From the diagram, we can see neither of the conclusion is definitely true. Hence the correct option will be 4.	

Question 98 :

Choose the one which is odd from the following options.

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

Options :

1. Coffee

2. Rice

3. Tobacco

4. Sugarcane

Solution :

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

Concept	Understanding
Classification	Coffee, Sugarcane and Tobacco are plantation crops while Rice is Grain food which is consumed on daily basis in the entire year. While cash crops are produced in large amounts for money.

Question 99 :

Choose the one which is odd from the following options.

Difficulty : Moderate

Average Time : 47 Seconds

Options :

1. Coffee

2. Rice

3. Tobacco

4. Sugarcane

Solution :

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

Concept	Understanding

Classification	Coffee, Sugarcane and Tobacco are plantation crops while Rice is Grain food which is consumed on a daily basis in the entire year. While cash crops are produced in large amounts for money.

Question 100 :

McAfee is a _____?

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

Options :

1. Anti- virus software
2. Programming language
3. Output device
4. Computer device

Solution :

The correct answer is option 1 i.e. Anti- virus software

Antivirus Software is a data security utility which is installed in a computer system with a purpose of protection from viruses, spyware, malware, rootkits, Trojans, phishing attacks, spam attack, and other online cyber threats.

ex - McAfee, Avast , Nortan etc

Rrb Ntpc CBT - 1 Previous Year Question Paper Analysis

The analysis of Rrb Ntpc CBT - 1 Previous Year Question Paper held on 2016-04-18 in the Morning exam is as follows:

1. 99 questions were moderate.
2. The safe score is 68 marks.
3. 99 questions were asked from CBT -1 and 99 questions were asked from CBT -1
4. 0 questions should have been skipped if you were short of time.

Rrb Ntpc CBT - 1 Previous Year Question PaperTopic Wise Weightage

CBT -1

1. GK - 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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