Rrb Group D CBT - 1 Previous Year Question Paper Overview

Here, you can solve all the questions asked in Rrb Group D CBT - 1 Previous Year Question Paper on 2018-10-03 in the Afternoon exam. The detailed solutions are also provided for every previous year question and some of these questions can be asked again in your Rrb Group D CBT - 1 exam. There are 100 questions in the exam and 90 minutes are provided for the Rrb Group D CBT - 1 exam. The Cutoff of the exam was 77 marks hence you should try to score at least 87 marks.

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

Question 1 :

The CEAT International Cricketer of the Year Award 2017 was presented to:

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

Options :

1. Ravindra Jadeja
2. Chetweshwar Pujara
3. Irfan Pathan
4. Ravichandran Ashwin

Solution :

The correct answer is **option 4**, i.e., ***Ravichandran Ashwin.***

- Ravichandran Ashwin has won the coveted **International Cricketer of the Year award** at the **CEAT Cricket** Rating (CCR) **International awards 2017** at the **Cricket** Club of India (CCI) in Mumbai.
- Ravichandran Ashwin is an Indian international cricketer. An all-rounder who bats right-handed and bowls right-arm off break, Ashwin plays for Tamil Nadu in domestic cricket and Delhi Capitals in the Indian Premier League.

Question 2 :

An element has electronic configuration 2,8,6. It belongs to

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

Options :

1. 6 group and 2 period
2. 16 group and 3 period
3. 1 group and 1 period
4. 2 group and 2 period

Solution :

The correct answer is option 2, i.e., **16 group and 3 period.**

When the electronic configuration is given, then

1. **PERIOD NUMBER** - Number of shells in an atom of the element.
2. **GROUP NUMBER** - Depends on the number of valence electrons. If the valence electrons are 1, the group number equals the number of valence electrons :

- 1 Valence Electron - Group 1
- 2 Valence Electrons - Group 2
- 3 to 8 valence electrons - Add “10” to the valence electrons to get the group number of the element.

Thus,

Element 'x' is sulphur(2,8,6)

It is in the 3rd period and 16th group

Question 3 :

A 5 resistance wire is doubled on it. Calculate the new resistance of the wire.

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

Options :

1. 1.25
2. 2.25
3. 1.5
4. 1.00

Solution :

The correct answer is **option 1**, i.e., ***1.25 .***

- We consider wire is doubled on it means to fold the length of wire. It means its length will get half and the area of the cross-section will get doubled.
- Therefore, Let the resistance of the wire originally 'R' of length 'L' and area of cross-section 'A' with the resistivity of the material is 'p',
- Then

$$R = \rho\frac{l}{A} = 5\ \Omega$$

Now, for new arrangement,

p' = p

l' = l / 2

A' = 2A

Thus,

$$R' = \rho'\frac{l'}{A'} = \rho\ \frac{\frac{l}{2}}{2A}$$

$$R' = \frac{1}{4}\left(\rho\frac{l}{A}\right)$$

$$= \frac{1}{4} \times 5$$

$$= 1.25\ \Omega$$

Question 4 :

Choose the option that is NOT true about the vascular system.

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

Options :

1. Blood is only white vascular connective tissue.
2. The vascular system forms about 7-8% of the body weight.
3. There is about 6.8 liters of blood in an adult person
4. Life span of human RBCs is 115-120 days.

Solution :

The correct answer is **option 1,** i.e., ***Blood is only white vascular connective tissue.***

- The **vascular system**, also called the **circulatory system**, is made up of the vessels that carry blood and lymph through the body. The arteries and veins carry blood throughout the body, delivering oxygen and nutrients to the body tissues and taking away tissue waste matter.
- Human **red blood cells** are formed mainly in the bone marrow and are believed to have an average **life span** of approximately 120 days.
- **Blood** is considered a **connective tissue** because it has a matrix. The living cell types are **red blood** cells, also called erythrocytes, and **white blood** cells also called leukocytes.

Question 5 :

In November 2017, ... was India's nominee for the fifth and last seat in the International Court of Justice. S/he was re-elected after Britain withdrew its candidate from the election.

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

Options :

Dalveer Bhandari

2. Ronny Abraham
3. Neeru Chadha
4. Debasish Bhadur

Solution :

The correct answer is **option 1**, i.e., ***Dalveer Bhandari***.

- India's nominee to the International Court of Justice (ICJ) Dalveer Bhandari was re-elected to the fifth and the last seat of the world court in Nov 2017 after Britain withdrew its candidate from the election.
- He is a former Judge of the Supreme Court of India. He is also former Chief Justice of Bombay High Court and Judge of Delhi High Court.

Question 6 :

Tooth decay starts when the pH of the mouth is .....

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

Options :

1. more than 5.5
2. less than 5.5
3. less than 4.5
4. more than 4.5

Solution :

The correct answer is **option 2**, i.e., ***less than 5.5.***

- **When the pH in the mouth falls below 5.5, tooth decay starts.**
- Bacteria present in the mouth produce acid by the degradation of sugar and food particles which remain in the mouth after eating. The acid produced in the mouth attack the enamel thereby, creating tooth decay.

Question 7 :

ISRO's first sun mission, which is going to take off in 2019, is named as:

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

Options :

1. Surya L1
2. Ravi L1
3. Suraj L1
4. Aditya L1

Solution :

The correct answer is **option 4**, i.e., ***Aditya L1.***

- **Aditya or Aditya-L1 is a spacecraft mission to study the Sun.**
- It has been designed and will be built in collaboration between the Indian Space Research Organisation and various Indian research institutes.
- It is planned to be launched by the end of 2020.
- It is India's first solar mission.

Question 8 :

In the Modern Periodic Table, which period contains 32 elements?

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

Options :

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

Solution :

The correct answer is **option 1**, i.e., ***Period 6.***

- **The third period** contains eight elements.
- **Periods 4** have 18 elements.
- **The fifth period** contains 18 elements, beginning with rubidium and ending with xenon.
- **The sixth period contains 32 elements,** tied for the most with period 7, beginning with caesium and ending with radon. Lead is currently the last stable element; all subsequent elements are radioactive.

Question 9 :

Which of the following objects would possess potential energy?

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

Options :

1. Raised hammer
2. Blowing wind
3. A rolling stone
4. Moving bullet

Solution :

The correct answer is **option 1**, i.e., ***Raised hammer.***

- Potential energy is the energy held by an object because of its position relative to other objects, stresses within itself, its electric charge, or other factors.
- The kinetic energy of an object is the energy that it possesses due to its motion. Its examples can be: Moving bullet, A rolling stone, Blowing wind.

Question 10 :
Which of the following regions is the original habitat of the 'Toda Tribe'?

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

Options :

1. Kurnaun Hills
2. Nilgiri Hills
3. Khasi Hills
4. Gharwal Hills

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

- Toda people are a Dravidian ethnic group who lives in the Nilgiri Mountains of the Indian state of Tamil Nadu.

Question 11 :
Which of the following cities is situated on the riverbank of Sabarmati?

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

Options :

1. Surat
2. Bhavnagar
3. Vadodara

Ahmedabad

Solution :

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

- **Ahmedabad**, in western India, is the largest city in the state of Gujarat. The **Sabarmati River** runs through its center.
- **Surat** is a city in Gujarat located on the bank of the **Tapti River**.
- Originating from Pavagadh in the Panchmahal District of Gujarat, The **Vishwamitri River** flows mainly through the west of the city of **Vadodara**.
- A small non-perennial river named **Kansara Nala** passes through the outer area of **Bhavnagar.**

Question 12 :

The given symbol represents ..... element.

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

Options :

1. Gold
2. Hydrogen
3. Mercury
4. Carbon

Solution :

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

- Hydrogen is the chemical element with the symbol **H** and atomic number 1.
- Its Atomic Structure is 

Question 13 :

Name the author of the book 'One Indian Girl'.

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

Options :

1. Chetan Bhagat
2. Ashwin Sanghi
3. Brad Stone
4. Mark Tully

Solution :

The correct answer is **option 1**, i.e., ***Chetan Bhagat.***

Chetan Bhagat is an Indian author and columnist, known for his English novels about young middle-class Indians. Bhagat was included in Time magazine's list of World's 100 Most Influential People in 2010.

He is the author of the book 'One Indian Girl'.

Question 14 :

The recipients of the Whitley Awards, also called the Green Oscar Awards, are:

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

Options :

1. S Bhoopaty and Parul Sarkar
2. P Sanjeevani and Arunima Agarwal
3. Sanjay Gubbi and Pumima Burman
4. Manik Rao and Naresh Mehta

Solution :

The correct answer is **option 3**, i.e., ***Sanjay Gubbi and Purnima Burman.***

- The **Whitley Awards** are held annually by the Whitley Fund for Nature (WFN) to recognise and celebrate effective grassroots conservation leaders across the Global South.
- Also known as the "Green Oscars", the Awards seek to recognise outstanding contributions to wildlife conservation with a focus on Asia, Africa, and Latin America, bringing international attention to the work of deserving individuals committed to precipitating long-lasting conservation benefits on the ground, with the support of local communities.
- **Sanjay Gubbi of Karnataka and Purnima Barman of Assam were among six global winners of the award shortlisted from 166 entries in the year 2017.**

Question 15 :

In the Modem Periodic Table, which group has a completely filled valence shell and chemically inactive elements?

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

Options :

1. 16
2. 18
3. 15
4. 17

Solution :

The correct answer is **option 2**, i.e., ***18.***

- **The noble gases are in Group 18 (8A).** They are helium, neon, argon, krypton, xenon, and radon.
- Noble gases have no tendency to gain lose or share electrons. They do not participate in chemical reactions. This is due to the following reasons.
  (1) **They have completely filled valence shells.** The next available vacant shell has much higher energy.
  (2) They have large positive electron gain enthalpy values.
  (3) They have very high ionization enthalpy.

Question 16 :
When light travels from a rarer medium to a denser medium, it .....

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

Options :

1. speed remains the same
2. speeds down then up
3. speeds down
4. speeds up

Solution :
The correct answer is **option 3**, i.e., ***speeds down.***

- According to the law of refraction of light: When a ray of light passes from rarer medium to denser medium, it bends towards the normal, and the speed decreases.
- Similarly, when a ray of light passes from denser to rarer medium, it bends away from Normal.

Question 17 :
Which of the following sports is Gurmeet Singh associated with?

Difficulty : Moderate

Average Time : 54 Seconds

Options :

1. Race walk
2. Kabaddi
3. shooting
4. Wrestling

Solution :

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

- **Gurmeet Singh** (born 1 July 1985 in Uttarakhand, India) is an Indian athlete who competes in the 20 kilometers **race walk** event.
- He is a current Indian record holder in the 20 km race walk, which he set in the Indian Grand Prix I in Patiala in May 2011.

Question 18 :

What type of tissue are our bones?

Difficulty : Moderate

Average Time : 50 Seconds

Options :

1. parenchyma
2. Permanent tissue
3. Epidermic
4. Connective

Solution :

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

- **Bone tissue (osseous tissue) is a hard tissue, a type of dense connective tissue.** It has a honeycomb-like matrix internally, which helps to give the bone rigidity. Bone tissue is made up of different types of bone cells.
- **Parenchyma** is a term used to describe the functional **tissues** in plants and animals.
- The tissues that are completely grown and have lost the ability of division are known as permanent tissues. The meristematic tissues divide and differentiate to form the permanent tissues.

Question 19 :

For which of the following elements, the symbol consists of only one letter?

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

Options :

1. Calcium
2. Chlorine
3. Carbon
4. Copper

Solution :

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

ELEMENTS	SYMBOLS
Chlorine	Cl
Calcium	Ca
Carbon	C
Copper	Cu

Question 20 :

Chandra Gupta II extended the Gupta Kingdom to Gujarat in ..... AD.

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

Options :

1. 390
2. 309
3. 903
4. 930

Solution :

The correct answer is **option 1**, i.e., ***390.***

After the death of Rudrasena II, the Vakataka ruler in 390 A.D., Padmavathigupta became the de facto ruler of the kingdom. As the Saka territory lay next to that of the Vakatakas, Chandra Gupta II took advantage of the internal dissensions prevailing in the Saka kingdom to defeat Rudrasimha III and annex the territory of the Sakas. To commemorate his victory Chandra Gupta II issued silver coins with the image of Garuda on one side and titles like Paramabhagvat and Maharajadhiraja on the other side. This conquest destroyed the last vestige of foreign rule in India and extended the Gupta Empire up to the Arabian Sea, its natural frontier on the west. Chandra Gupta II made Ujjain the second capital of his Empire as he could rule Gujarat effectively form this place.

Question 21 :

Mahabaleshwar Sail received 2016 Saraswati Samman for ..... Literature.

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

Options :

1. Marathi
2. Tulu

Odia

4. Konkani

Solution :

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

- **Eminent Konkani writer Mahabaleshwar Sail (74) was bestowed with prestigious Saraswati Samman 2016.**
- He was awarded for his novel “Hawthan (à¤¹à¤¾à¤µà¤Ÿà¤£)” that captures the cultural lives of the traditional potter community in Goa.

Question 22 :

An object of mass 12 kg is at a certain height above the ground. If the potential energy of the object is 480 J. Find the height at which the object is with respect to the ground. Given, g = 10 ms-2

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

Options :

1. 5 m
2. 8 m
3. 4 m
4. 6 m

Solution :

The correct answer is **option 3**, i.e., ***4 m.***

CONCEPT	UNDERSTANDING	APPLICATION

Potential energy is defined as the energy stored in an object. The formula for gravitational potential energy is given below. **PE = mgh** Where, • PE is the potential energy of the object in Joules, J • m is the mass of the object in kg • g is the acceleration due to gravity in ms^{-2} • h is the height of the object with respect to the reference point in m.	To find: Height Given: • Mass = 12 kg • PE = 480 J • g = 10 ms^{-2}	$PE = mgh$ $h = \frac{PE}{mg}$ $= \frac{480}{12 \times 10}$ $= 4\ m$

Question 23 :

Who has played the lead role in the movie 'Newton' released in 2017?

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

Options :

1. Salman Khan

Amir Khan

3. Shahrukh Khan
4. Raj Kumar Rao

Solution :

The correct answer is **option 4,** i.e., ***Raj Kumar Rao.***

Newton	
Produced by	Manish Mundra
Screenplay by	Amit V. Masurkar Mayank Tewari
Starring	**Rajkummar Rao** Pankaj Tripathi Anjali Patil Raghubir Yadav
Music by	Benedict Taylor Naren Chandavarkar (Music & Background Music) Rachita Arora (Promo song)

Question 24 :

1 kWh = ...?

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

Options :

1. 360000 J
2. 3600 J
3. 36000 J
4. 3600000 J

Solution :

The correct answer is **option 4**, i.e., ***3600000 J.***

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

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

1 kWh = 1kW 1h

One kilowatt-hour is equal to 3.610^6 joules:

1 kWh = 3.610^6 J

= 3600000 J

Question 25 :

The SI unit of 'g' is the same as that of acceleration, that is .....

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

Options :

1. ms^1
2. ms^{-2}
3. ms^2
4. ms^{-1}

Solution :

The correct answer is **option 2**, i.e., ***ms^{-2}.***

Whenever an object falls towards the earth, it gains an acceleration. This is called acceleration due to gravity (g).

Thus its Si unit is similar to acceleration, i.e, ms^{-2}.

Question 26 :

What does a light year measure?

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

Options :

Velocity

2. Distance
3. Energy
4. Power

Solution :

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

- The light-year is a unit of length used to express astronomical distances and measures about 9.46 trillion kilometers or 5.88 trillion miles. As defined by the International Astronomical Union, a light-year is a distance that light travels in a vacuum in one Julian year.
- Hence, **A light-year is a way of measuring distance.**

Question 27 :

..... connects bones.

Difficulty : Moderate

Average Time : 53 Seconds

Options :

1. Ligament
2. Areolar
3. Tendon
4. Cartilage

Solution :

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

- **A ligament is the fibrous connective tissue that connects bones to other bones.** Ligaments are similar to tendons as they are all made of connective tissue. The differences in them are the connections that they make. Ligaments connect one bone to another bone while the tendons connect muscle to bone.
- The term **areolar** connective tissue means tissue with 'small open spaces' (areola) and refers to the appearance of small airy pockets between the network of cells and fibers.
- **Cartilage** is a resilient and smooth elastic tissue, rubber-like padding that covers and protects the ends of long bones at the joints, and is a structural component of the rib cage, the ear, the nose, the bronchial tubes, the intervertebral discs, and many other body components.

Question 28 :

A solution contains 31 g of common salt in 320 g of water. Calculate the concentration in terms of mass by the mass percentage of the solution.

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

Options :

1. 9.60 g
2. 8.83%
3. 9.09%
4. 9.60%

Solution :

The correct answer is **option 2**, i.e., ***8.83%.***

Mass (solute) = 31 gram
Mass (solvent) = 320 gram
Mass (solution) = Mass (solute) + Mass (solvent)
= 31 gram + 320 gram
= 351 gram

$$\text{Concentration in terms of Mass by mass percentage} = \frac{\text{mass of solute}}{\text{mass of solution}} \times 100$$
$$= \frac{31}{351} \times 100$$
$$= 8.83\%$$

Question 29 :

..... was conceived on the principle of 'one nation, one tax, and one market'.

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

Options :

1. ATM cards
2. The Goods and Service Tax
3. Demonetization
4. Salaries of defence personals

Solution :

The correct answer is **option 2**, i.e., ***The Goods and Service Tax.***

- GST is an Indirect Tax which has replaced many Indirect Taxes in India. The Goods and Service Tax Act was passed in the Parliament on 29th March 2017.
- The Act came into effect on 1st July 2017; Goods & Services Tax Law in India is a **comprehensive**, **multi-stage**, **destination-based tax** that is levied on every **value addition**.
- The GST was propounded as **a** "**One Market**, **One Nation**, **One Tax**" reform.

Question 30 :

Which of the following is NOT based on Archimedes' principle?

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

Options :

1. Lactometers
2. Hydrometers
3. Odometers
4. Submarines

Solution :

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

- **Archimedes' principle** states that the upward buoyant force that is exerted on a body immersed in a fluid, whether fully or partially submerged, is equal to the weight of the fluid that the body displaces.
- It is used for designing **submarines,** ships, etc. **lactometer and hydrometer** and also based on this principle and is used to check the purity of milk and density of liquids respectively.
- An **odometer** or odograph is an instrument used for measuring the distance traveled by a vehicle, such as a bicycle or a car.
- Most odometers work by counting wheel rotations and assume that the distance traveled is the number of wheel rotations times the tire circumference, which is a standard tire diameter times pi (3.1416).

Question 31 :

Chapter IV of the Indian Constitution deals with .....?

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

Options :

1. Directive Principles of State Policy
2. Human Rights
3. The Union Judiciary
4. Parliament

Solution :

The correct answer is **option 1** i.e. **Directive Principles of State Policy.**

PART I	**THE UNION AND ITS TERRITORY**	**Art. (1-4)**
PART II	CITIZENSHIP	Art. (5-11)

PART III	FUNDAMENTAL RIGHTS	Art. (12-35)
PART IV	DIRECTIVE PRINCIPLES OF STATE POLICY	Art. (36-51)
PART IVA	FUNDAMENTAL DUTIES	Art. (51A)

Question 32 :

Who among the following was awarded the Rajiv Gandhi Khel Ratna award for Hockey in 2017?

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

Options :

1. Sandeep Singh
2. Birendra Lakra
3. PR Sreejesh
4. Sardar Singh

Solution :

The correct answer is **option 4,** i.e., ***Sardar Singh.***

- Sardara Singh sometimes referred to as Sardar Singh, is an Indian professional field hockey player and captain of the Indian national team. He usually plays the center half position. Sardara became the youngest player to captain the Indian team when he led the side at the 2008 Sultan Azlan Shah Cup.
- His awards:

1. Arjuna Award for Hockey(2012)
2. Padma Shri(2015)
3. Rajiv Gandhi Khel Ratna award for Hockey(2017)

Question 33 :

Which Indian actor has most followers on Twitter?

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

Options :

1. Amitabh Bachchan
2. Sushant Singh Rajput
3. Priyanka Chopra
4. Shah Rukh Khan

Solution :

The correct answer is **option 4**, i.e., ***Shah Rukh Khan.***

- **With 39 million followers on Twitter, Shah Rukh Khan has become the most-followed Indian celebrity on the micro-blogging site.**

Question 34 :

The given symbol represents ..... electrical component.

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

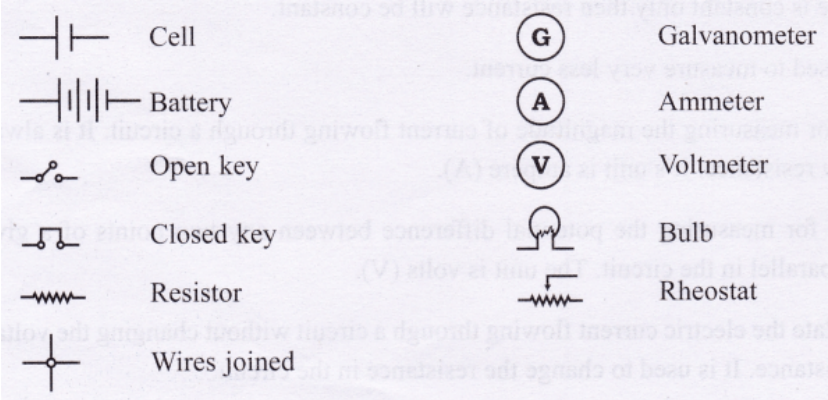
Options :

1. Rheostat
2. Electric bulb
3. Ammeter
4. Resistor

Solution :

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

A **rheostat** is a variable resistor that is used to control the current. They are able to vary the resistance in a circuit without interruption.



Question 35 :

Which one of the following is highly exothermic?

Difficulty : Moderate

Average Time : 49 Seconds

Options :

1. Dissolving copper sulphate in water
2. Dissolving bleaching powder in water
3. Dissolving washing soda in water
4. Dissolving sulphuric acid in water

Solution :

The correct answer is **option 4,** i.e., ***Dissolving sulphuric acid in water.***

- **Add water to acid, particularly sulphuric acid, the exothermic reaction** will cause the first droplet of water to touch the acid to boil rapidly and violently, causing the appearance of an explosive reaction drenching anyone unfortunate enough to be nearby with acid and boiling water. It is highly exothermic.
- The **sodium carbonate(baking soda)** molecules are rearranged in the water, releasing energy as heat. This transfer of heat out of a chemical system is called an exothermic process.
- The reaction between anhydrous copper sulfate and water is reversible. Water is driven off from hydrated copper sulphate when it is heated, so the forward reaction is endothermic – energy must be transferred from the surroundings for it to happen.

Question 36 :

Who among the following is the current Speaker of the Lok Sabha?

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

Options :

1. Ghulam Nabi Azad
2. Anoop Mishra
3. PJ Kurien
4. Sumitra Mahajan

Solution :

The correct answer is **option 4**, i.e., ***Sumitra Mahajan.***

- **Sumitra Mahajan is an Indian politician who was the Speaker of the 16th Lok Sabha from 2014 to 2019.** She belongs to Bharatiya Janata Party.
- She represented the Indore constituency of Madhya Pradesh from 1989 to 2019, and then retired from electoral politics.

Question 37 :

Daulat Khan sent messengers to Babur in Kabul, offering his allegiance in exchange for assistance against the emperor .....

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

Options :

1. Bahlul Lodi
2. Ibrahim Lodi
3. Ghazi Khan Lodi
4. Sikandar Lodi

Solution :

The correct answer is **option 2**, i.e., ***Ibrahim Lodi.***

- On his return, Ghazi Khan warned his father that Ibrahim Lodi was planning to remove his governorship. In response, Daulat Khan sent messengers to Babur in Kabul, offering his allegiance in exchange for assistance against the emperor. Babur agreed. Babur's army quickly captured Lahore and Dipalpur.

Question 38 :

Government of India declared August 15, 2017, to be celebrated as:

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

Options :

1. Sankalp Dhara
2. Sambhavana Diwas
3. Sankalp Parva
4. Sankalp Diwas

Solution :

The correct answer is **option 3**, i.e., ***Sankalp Parva.***

- **August 15**, **2017,** be celebrated as the **'Sankalp Parva' or the Day of Resolve,** and in 2022 our nation will transform that resolve into 'Siddhi' or attainment," it said. This five-year period can ignite the transformation that will create an India, which our freedom fighters will be proud of, it said.

Question 39 :

Which of the following pairs have the same SI units?

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

Options :

1. Force and pressure
2. Force and distance
3. Work and energy
4. Momentum and force

Solution :

The correct answer is **option 3**, i.e., ***Work and energy.***

QUANTITIES	SI UNITS
Force	Newton
Pressure	Pascal

Work/energy	Joule
Momentum	kgm/s
Distance	meter

Question 40 :
Which film was given Best Film Award at the 64th National Awards in 2017?

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

Options :

1. Kaasav
2. Dangal
3. Rustom
4. Sultan

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

The Marathi film *Kaasav* (meaning turtle) won the prestigious National Award for Best Feature Film at the 64th National Awards in 2017.

Question 41 :
During which of the following types of reproduction do the fully matured tiny individuals detach from the parent body and become new independent individuals?

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

Options :

1. Fission
2. Regeneration

Budding

4. Multiple fission

Solution :

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

- **Budding**- In organisms such as Hydra, a bud develops as an outgrowth at one specific site. These buds develop into tiny individuals and when fully mature, detach from the parent body and become new independent individuals.
- **Fission**, in biology, is the division of a single entity into two or more parts and the regeneration of those parts to separate entities resembling the original.
- **Regeneration** is the process of renewal, restoration, and growth that makes genomes, cells, organisms, and ecosystems resilient to natural fluctuations or events that cause disturbance or damage.
- **Multiple fission** is the process of asexual reproduction in which instead of 2 daughter cells, many daughter cells are produced from the parent cell. In this, the nucleus undergoes repeated division to produce a large number of nuclei.

Question 42 :

Hydra, starfish, planaria undergo:

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

Options :

1. sporulation
2. regeneration
3. Budding
4. fragmentation

Solution :

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

- Regeneration is the process of renewal, restoration, and growth that makes genomes, cells, organisms, and ecosystems resilient to natural fluctuations or events that cause disturbance or damage.
- For example, hydra performs regeneration but reproduce by the method of budding. The hydra and the planarian flatworm have long served as model organisms for their highly adaptive regenerative capabilities. Once wounded, their cells become activated and restore the organs back to their pre-existing state.

Question 43 :

The bonds formed by the elements having larger atoms are:

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

Options :

1. weaker
2. stronger
3. very weak
4. very strong

Solution :

The correct answer is **option 3**, i.e., ***very strong.***

If the size of two bonded atom is large this means that the distance between the nucleus of the two atoms i.e.
the bond length will be more and thus the bond will be weak.

So smaller the size of bonded atoms stronger the bond will be or larger the size of bonded atoms, weaker the bond will be.

Question 44 :

Which of the following is/are true/false about the speed of sound in different media at 25°C? A. In oxygen gas, the speedof sound is 316 m/s. B. In water (distilled), the speed of sound is 1498 m/s

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

Options :

1. only A is true
2. only B is true
3. Neither A nor B is true
4. Both A and B are true

Solution :

The correct answer is **option 4,** i.e., ***Both A and B are true.***

Speed of sound in Substance	Speed in m/s
Sea Water	1531
Distilled Water	1498
Air	346
Oxygen	316

Question 45 :

A body of mass 200g is rotating in a circular path of radius r with constant velocity. the work done in one complete revolution is

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

Options :

1. Zero
2. 100/r J
3. 100r J
4. 200/r J

Solution :

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

Mass of the body, m = 200 gm

We know that in a circular motion, the work done by the object is zero as the object is always perpendicular to its velocity and displacement i.e the angle between force and displacement is 90 degrees.

$W = Fd\ cos\theta$

$\theta = 90^{\circ}$

$W = 0\ J$

So, the work done in one complete revolution isâ€‹ 0 Joules.

Question 46 :

Mr. A starts a business with an investment of ? 28.000. Mr. B joins the business after 5 months. After 2 more months Mr. C joins. If the ratio of their profit after one year is 4:2:3, then find out the investments made by Mr. B and Mr. C in rupees?

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

Options :

1. ? 20,000, ? 30,000
2. ? 50,000, ? 20,000
3. ? 12,000, ? 25,200
4. ? 24,000, ? 50,400

Solution :

The correct answer is option 4 i.e. Rs 24,000, Rs 50,400

Understanding

Given, A investment = 28000 × 12 = 336000 B investment = x × (12 - 5) =7x C investment = y × (12 - 7) =5y Profit = A:B:C = 4:2:3
Application
4 = 336000 so, 1 = 336000/4 = 84000 B investment = 2x/7 = (2 × 84000)/7 = 168000/7 = 24000 C investment = 3x/5 = (3 × 84000)/5 = 252000/5 = 50400

Question 47 :

The LCM of two natural numbers is 432. Which of the followina can be their HCF?

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

Options :

1. 12
2. 34
3. 26
4. 32

Solution :

The correct answer is option 1 i.e. 12

Understanding

LCM = 432 = 2 × 2 × 2 × 2 × 3 × 3 × 3

HCF is = 12 or 34 or 26 or 32

their is one possibility according to options

12 × 36 = 432

HCF of 12 and 36 = 12

Question 48 :

If 25, 35 and p are in continued proportion, then the value of p is .....

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

Options :

1. 60
2. 75
3. 49
4. 50

Solution :

The correct answer is **option 3** i.e. **49**

Understanding/Application
Since 25, 35, x are in continued proportion, we have 25 : 35 :: 35 : x 25 × x = 35 × 35 x = (35 × 35)/25 = 49

Question 49 :

Which of the following numbers is divisible by 9?

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

Options :

58556

2. 56112
3. 49653
4. 89445

Solution :

The correct answer is **option 3** i.e. **49653**

Understanding/Application
Rule for 9 - If the sum of digits of the number is divisible by 9, then the number itself is divisible by 9. Here, we identify all options 58556 = 5 + 8 + 5 + 5 + 6 = 29 = 2 + 9 = 11 = 1 + 1 = 2 56112 = 5 + 6 + 1 + 1 + 2 = 15 = 1 + 5 = 6 49653 = 4 + 9 + 6 + 5 + 3 = 27 = 2 + 7 = 9 (Divisible by 9)

Question 50 :

Sham's marks are 25% more than that of Divya's. What percent is Divya's marks less than that of Sham's?

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

Options :

1. 10%
2. 40%
3. 20%
4. 15%

Solution :

The correct answer is **option 3** i.e. **20%**

Understanding/Application

Let Divya = 100

A/q- Sham = 100 + (100/100)25 = 100 + 25 = 125

Difference = 125 - 100 = 25

Divya %less compare to Sham = (25/125)100 = 20%

Question 51 :

A train]eaves from a station and moves at 40 km/hr. After 2 hours, another train leaves from the same station and moves in the same direction at a certain speed. lithe second train catches up with the first train in 4 hours, what is the speed of the second train?

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

Options :

1. 55 km/hr
2. 50 km/hr
3. 60 km/hr
4. 65 km/hr

Solution :

The correct answer is option 3 i.e. 60 km/hr

Understanding/Application

Given,

A speed = 40 km/hr

B speed = x km/hr

After 2 hours A = 40 × 2 = 80 km away

Now,

Meeting point

80 km + (4 × 40) km = 240 km

B speed = 240/4 = 60 km/hr

Question 52 :

A tank has three pipes. The first one fills up the tank in 30 min and the second one can fill it up in 45 min. The third one drains out the tank. With all the pipes open it takes 27 min to fill up the tank. Find out how long it takes the third pipe alone to empty a full tank?

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

Options :

1. 56 min
2. 50 min
3. 52 min
4. 54 min

Solution :

The correct answer is option 4 i.e. 54 min

Understanding

A = 30 min B = 45 min C = x min (-ve) Total time when all three works together = 27 min So, total work = LCM of 30, 45, 27 = 270 Efficiency of A = 270/30 = 9 Efficiency of B = 270/45 = 6 Now, A/q- 270/(9 + 6 + x) = 27 15 + x = 10 x = -5
Application
C alone = 270/5 = 54 min

Question 53 :

Reema bought a car fort ? 75,000 and spent ? 10,000 on its repairs. She sold this car to Chin, at a profit of 15%. Chiru sold it to Ritu at a profit of 10%. What did Ritu pay for the car?

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

Options :

1. ? 1,02,575
2. ? 1,02,252
3. ? 1,07,525
4. ? 1,05,752

Solution :

The correct answer is option 3 i.e. Rs 107525

Understanding/Application

Reema's car CP = 75000 + 10000 = 85000 Sell Chiru 10% hike = 85000 + (85000/100)15 = 85000 + 12750 = Rs 97750 Now, Sell to Ritu on 10% hike = 97750 + (97750/100)10 = 97750 + 9775 = Rs 107525

Question 54 :

£1475 was invested for 5 years @ 4 % simple interest per annum. The interest accrued would be £ .....

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

Options :

1. 295
2. 442.5
3. 590
4. 147.5

Solution :

The correct answer is option 1 i.e. 295

Understanding
P = 1475 ROI = r = 4% Time = t = 5 years Formula: Intrest amount = (P/100)rt
Application
Intrest amount = (1475/100) 5 × 4 = 14.75 × 20 = 295

Question 55 :

The sum of ages of 6 Persons A, B, C, D, E and Fin a company born at the intervals of 5 years each is 105 years. What is the age of the oldest person?

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

Options :

1. 25 years
2. 15 years
3. 30 years
4. 20 years

Solution :

The correct answer is option 3 i.e. 30 years

Understanding/Application
Let, Younger person = x years A/q- x + (x + 5) + (x + 10) + (x + 15) + (x + 20) + (x + 25) = 105 6x + 75 = 105 6x = 30 x = 5 Oldest person = (x + 25) = 5 + 25 = 30 years

Question 56 :

The value of two angles of a quadrilateral is 65° each. The other two angles are also equal. Find out the value of these angles.

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

Options :

1. 125°
2. 115°

105°

4. 100°

Solution :

The correct answer is option 2 i.e.115º

Understanding/Application
Sum of opposite angle of quadrilateral = 180º 2 angels = 65º each (Given) So, Reaming 2 angles = 180º - 65º = 115º each

Question 57 :

If 72 = 49; 672 = 4489; then 6672 = ...

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

Options :

1. 448844
2. 444088
3. 444888
4. 444889

Solution :

The correct answer is **option 4** i.e. **444889**

Understanding/Application
When squaring of 7, the last digit will be 9 always. There is only option which unit digit is 9 Hence, 667^2 = 444889

Question 58 :

A solution contains 31 g of common salt in 320 g of water. Calculate the concentration in terms of mass by mass percentage of the solution.

Difficulty : Moderate

Average Time : 46 Seconds

Options :

1. 9.60 %
2. 8.83%
3. 9.09%
4. 9.60%

Solution :

The correct answer is option 2 i.e. 8.83%

Understanding
Given, Solution = 31 gm Water = 320 gm Total mass = 31 + 320 = 351
Application
% of solution on total mass = (31/351)100 = 8.83%

Question 59 :

Kiran swims in a 90 m long pool. He covers 360 m in two minutes by swimming from one end to the other and back along the same straight path, twice. Find the average velocity of Kiran.

Difficulty : Moderate

Average Time : 47 Seconds

Options :

1. 4 ms^{-1}
2. 5 ms^{-1}
3. 3 ms^{-1}
4. 0 ms^{-1}

Solution :

The correct answer is option 4 i.e. 0 ms^{-1}

Understanding/Application
Speed of kiran = 360/2 = 180 m/sec.
Distance = 2(90 + 90 + 90) = 540 m
Dispalacement = 0 m
So, Time = 540/180 = 3 sec
Average velocity = Dispacement/time = 0/3 = 0 m/sec

Question 60 :

The given bar graph shows the sales revenue of steel company 'ABC' for the past four years. Sales in millions What was the total sales revenue in 2015 (in million $)?

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

Options :

1. 2
2. 4
3. 8
4. 6

Solution :

The correct answer is option 1 i.e. 8

Understanding
See graph, bar of 2015 = 8
So, revenue of 2015 = 8

Question 61 :

I walk a certain distance and ride back, taking 13/2 hours in total. I could walk both ways in a total of 31/4 hours. How long will it take me to ride both ways?

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

Options :

6 h 15 min

2. 5 h 55 min
3. 4 h 15 min
4. 5 h 15 min

Solution :

The correct answer is option 4 i.e. 5 hours and 15 minutes

Understanding
Walk + Return = 13/2 hours Walk + walk = 31/4 hours So, 2 (Walk) = 31/4 hours Walk = (31/4)/2 = 31/8 hours Now, Return = 13/2 - 31/8 = (52 - 31)/8 = 21/8 hours
Application
Required, Return + Return So, 21/8 + 21/8 = (21 + 21)/8 = 42/8 = 21/4 hours (21/4) 60 = 315 minutes = 5 hours and 15 minutes

Question 62 :

The following pie diagram shows information on the sales of different types of food items by restaurant "XYZ". The total revenue made by the restaurant in NOV 2017 was 35 lakhs. How much revenue was made by the restaurant "XYZ through the sales of Chinese food items?

Difficulty : Moderate

Average Time : 59 Seconds

Options :

1. 1.5 Lakhs
2. 2 Lakhs

0.5 Lakhs

4. 1.75 Lakhs

Solution :

The correct answer is option 4 i.e. 1.75 lakhs

Understanding
100% = 35 lakhs chinese = 5% (35/100)5 = 1.75 lakhs

Question 63 :

What is the value of one-fourth of G? If G = (96 ÷ 12) 14 x (12 + 8) ÷ 2?

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

Options :

1. 38
2. - 36
3. 148
4. - 33

Solution :

The correct answer is **option 4** i.e. **- 33**

Application
G = (96 ÷ 12) 14 x (12 + 8) ÷ 2 G =(8) 14 x 20 ÷ 2 G = 8 - 14 x 10 = -132 G = 132 1/4th of G = -132/4 = -33

Question 64 :

Find the three prime numbers such that product of the first two is 1147 and the product of the last two numbers is 1517?

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

Options :

1. 21, 47, 61
2. 31, 37, 61
3. 21, 37, 41
4. 31, 37, 41

Solution :

The correct answer is **option 4** i.e. **31, 37, 41**

Application
Prime number = 1, 2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47, 53, 57 1147 = 31 × 37 (take multiple of 7 at unit place) 1517 = 37 × 41

Question 65 :

There are three groups G1, G2 and G3 in a College with 20, 40 and 60 students respectively. The average marks obtained by groups G1, G2 and G3 are 50%, 60% and 70% respectively. Find the average marks of the entire college?

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

Options :

1. 63.33%
2. 60%
3. 62%
4. 61%

Solution :

The correct answer is **option 1** i.e. **63.33%**

Application
G1 = 20 G2 = 40 G3 = 60 Average of G1 = 50% Average of G2 = 60% Average of G3 = 70% Avrage of entire college = [(20 × 50) + (40 × 60) + (60 × 70)]/(20 + 40 + 60) = (1000 + 2400 + 4200)/(120) = 7600/120 = 63.33

Question 66 :

Solve the following equation to find x: (x—2)2—36 = 0; x € N

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

Options :

1. 4
2. -4
3. -8
4. 8

Solution :

The correct answer is option 4 i.e. 8

Understanding

$(x—2)^2—36 = 0$
$(x—2)^2 = 36$
$(x—2)= 6$
$x = 6 + 2 = 8$

Question 67 :

The speed of a boat in still water is 12 km/h. If the boat covers a distance of 38 km upstream in 4 hours; then the speed of the stream (in km/h) is:

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

Options :

1. 6.5
2. 3.17
3. 2.5
4. 3

Solution :

The correct answer is **option 3** i.e. **2.5 km/hr**

Understanding
Given, Speed of boat = 12 km/hr Speed of stream = x km/hr
Application
(12 + x) = 38/4 x = 9.5 - 12 = -2.5 km/hr (-ve Due to Upstrem) Hence, speed of stream = 2.5 km/hr

Question 68 :

If G is the G.M. of the product of r sets of observations with geometric means G1, G2, G3, ...Gr respectively, then find the

value of G?

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

Options :

1. log G1 + log G2 + ... log Gr
2. G1.G2.....Gr
3. G1 + G2 + ... + Gr
4. log G1. log G2..... log Gr

Solution :

The correct answer is option 4 i.e. 65/8 Days

Understanding/Application
Geometric mean = G_1, G_2, G_3, ...Gr *(Given)*
G =G1 × G_2 × G_3 ×.....Gr
G = G1.G2.....Gr (Safisfy the option 2)

Question 69 :

The ratio of the average ages of three people and the other two in a group of five people is 9 : 7. If the difference of their averages is 12, then find out the average age of all 5 people?

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

Options :

1. 24.8
2. 16.8
3. 19.2
4. 18.4

Solution :

The correct answer is option 3 i.e. 19.2 years

Understanding

Average age of 3 people= 9x Average age of 2 peoples = 7x 9x - 7x = 12 x = 6 Sum of age of 3 people = 9 × 6 = 54 Sum of age of 2 people = 7 × 6 = 42
Application
Average of all 5 ages = (54 + 42)/5 = 96/5 = 19.2 years

Question 70 :

What is the answer of 1/6+ 1/12 + 1/20 + 1/30 + 1/42 + 1/56?

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

Options :

1. 11/24
2. 3/8
3. 7/16
4. 13/28

Solution :

The correct answer is **option 2** i.e. **3/8**

Understanding/Application
1/6+ 1/12 + 1/ 20 + 1/ 30 + 1/ 42 + 1/56 LCM of 6, 12, 20, 30, 42, 56 = 840 (140 + 70 + 42 + 28 + 20 + 15)/840 = 315/840 = 3/8

Question 71 :

The graph below shows the expenditure of a public sector company 'ABC' under different heads for the financial year 2015-16. How much did company ABC spend on infrastructure in 2015-2016?

Difficulty : Moderate

Average Time : 42 Seconds

Options :

1. 20 lakh crores
2. 30 lakh crores
3. 25 lakh crores
4. 5 lakh crores

Solution :

The correct answer is option 1 i.e. 20 lakh crores

Understanding/Application
See the graph, the bar of infrastructure show 20 So, expand on infrastructure by company ABC = 20 lakh crores

Question 72 :

The square root of 7569 is:

Difficulty : Moderate

Average Time : 39 Seconds

Options :

1. 87
2. 93
3. 83
4. 77

Solution :

The correct answer is **option 1** i.e. **87**

Application

Square root of 7569

75/69

For 75; $8^2 = 64$ and $9^2 = 81$ (we take smaller one i.e 8)

So, the first digit is 8

For the last digit

Here, 9 is last means 3 or 7 must be the last digit

Hence, 83 or 87

For confirm that

$8 \times (8 + 1) = 72$, 72 is less than 75 so 7 is the last digit

Hence square root of 7569 = 87

Question 73 :

Which of the following is/are true/false about the speed of sound in different media at 25°C ? A. In oxygen gas the speed of sound is 316 m/s. B. In water (distilled), the speed of sound is 1498 m/s

Difficulty : Moderate

Average Time : 62 Seconds

Options :

1. only A is true
2. only B is true
3. Neither A nor B is true
4. Both A and B are true

Solution :

The correct answer is option **4 i.e. Both A and B are true.**

Understanding	Application

The speed of sound in different media at 25°C is different. • In oxygen gas, the speed of sound is 316 m/s. • In water (distilled), the speed of sound is 1498 m/s.	Hence, **option 4 i.e. Both A and B are true** is the right answer.

Question 74 :

Pick the figure that will complete the given series.

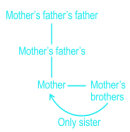
Difficulty : Moderate **Average Time : 60 Seconds**

Options :

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

Solution :

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

Understanding
In each new step, we can see that a line with a dot moves in an anticlockwise direction on the corner of a square.
Application
Thus, the next figure will be: 

Question 75 :

Which of the following. arguments are strong? Statement: Indian professionals working abroad should be called back to India. Argument: 1. Yes, one must serve their motherland first and forget about earnings. 2. No, India has enough talented professionals.

Difficulty : Moderate

Average Time : 59 Seconds

Options :

1. Only argument 2 is strong
2. Neither 1 nor 2 is strong
3. Only argument 1 is strong
4. Both 1 and 2 are strong

Solution :

The correct answer is option **2 i.e. Neither 1 nor 2 is strong.**

Understanding	Application
The statement is Indian professionals working abroad should be called back to India.	Hence, **Neither 1 nor 2 is strong.**
Argument 1is Yes, one must serve their motherland first and forget about earnings is not strong as every person must be free to work wherever he wants and no compulsion should be made to confine one to one's own country. Hence, Argument 1 is not strong.	
Argument 2 is No, India has enough talented professionals. As talented scientists can be of great benefit to the nation and some alternatives as special incentives or better prospects may be made available to them to retain them within their motherland. So, argument II also is not strong.	

Question 76 :

If Raja is facing East and then turns 270° clockwise and then 90° anti-clockwise, in which direction is he facing now?

Difficulty : Moderate

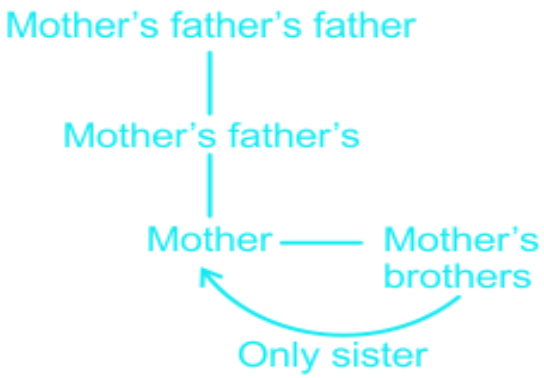
Average Time : 81 Seconds

Options :

1. East
2. South
3. West
4. North

Solution :

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

Understanding	Application
The diagram showing Raja's movement is as follows:  From the above diagram, we can see that after moving 90° anticlockwise Raja is facing in the west direction.	Hence, **option 3** i.e. **West is the correct answer.**

Question 77 :

Find the next letter in the given series. MD, NE, OF, PG, ?

Difficulty : Moderate

Average Time : 59 Seconds

Options :

1. HV
2. QK
3. CE
4. QH

Solution :

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

Understanding	Application
Given series: MD, NE, OF, PG, ? In the first letter of each element are in increasing order i.e, M, N, O, P. So the next term is **Q.** In the second letter of each element are also in increasing order i.e, D, E, F, G. So the next term is **H.**	Next element will be: **QH**

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

Question 78 :

Which of the following Venn diagrams indicates the best relation between: English, Chinese, French

Difficulty : Moderate

Average Time : 113 Seconds

Options :

1. 

3. 

4. 

Solution :

The correct answer is **option 4**

Understanding
English, Chinese, and, French all are different Languages.
Application
Venn diagram representing the relation between English, Chinese, and, French is as follows: 

Question 79 :

Select the term that relates to the third term in the same way that the second term relates to the first term. Ammeter: Current:: Ohmmeter:?

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

Options :

Pressure

2. Resistance
3. Speed
4. Voltage

Solution :

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

Understanding	Application
For Ammeter: Current:: Ohmmeter:? • An ammeter is a measuring instrument used to measure the current in a circuit. In this way, the second term relates to the first term.	Hence, Ohmmeter related to **Resistance.**
• Similarly, Ohmmeter is an instrument for measuring electrical resistance.	

Question 80 :

Consider the given statement(s) and decide which of the given assumption(s) is/are implicit in the statement. Statement: Crying children seek more attention from parents. Assumptions: I. They are unable to communicate properly. II. The parents are engrossed in their work and leave the children to play by themselves.

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

Options :

1. Neither I nor II is implicit.
2. Only I is implicit.
3. Both I and II are implicit.
4. Only II is implicit.

Solution :

The correct answer is **option 3 i.e. Both I and II are implicit.**

Understanding	Application
Statement: Crying children seek more attention from parents. • Assumptions 1 i.e, they are unable to communicate properly is one of the fact that crying children seek more attention from parents. • Assumptions 2 i.e, the parents are engrossed in their work and leave the children to play by themselves is also implicit that the crying children seek more attention from parents.	Hence, **Both I and II are implicit.**

Question 81 :

Find the ODD one:

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

Options :

1. b
2. d
3. a
4. c

Solution :

The Correct Answer is option **2 i.e. d.**

Understanding	Application
In figure a, b, and, c we can see that two straight lines intersect each other.	Hence, Option d is an odd one.

But in the figure, no two straight lines intersect each other.

Question 82 :

A statement is followed by two arguments. Decide which of the arguments is/are strong with respect to the statement. Statement: Should taxes on perfume be further increased? Argument: 1. Yes. perfume is a luxury item used by rich people only. 2. No, perfume is used by poor people also.

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

Options :

1. Neither argument 1 and 2 is strong
2. Either argument 1 or 2 is strong
3. Only argument 1 is strong
4. Only argument 2 is strong

Solution :

The Correct Answer is option **1** i.e. **Neither arguments 1 and 2 is strong.**

Understanding	Application
Statement: Should taxes on perfume be further increased • Argument 1 i.e, Yes. perfume is a luxury item used by rich people only is not correct because it is not only used by only rich people.	Hence, **Neither arguments 1 and 2 is strong.**
• Argument 2 i.e, No, perfume is used by poor people also is not implicit.	

Question 83 :

Which two alpha-numeric sets will follow in the given series? N-14, P-16. R-18, T-20, ?,?

Difficulty : Moderate

Average Time : 68 Seconds

Options :

1. X-24, P-16
2. L-12, O-15
3. V-22, Z-26
4. V-22, X-24

Solution :

The Correct Answer is option **4 i.e. V-22, X-24.**

Understanding	Application
The number series is N-14, P-16. R-18, T-20, ?,? **1 2 3 4 5 6 7 8 9 10 11 12 13** A B C D E F G H I J K L M Z Y X W V U T S R Q P O N **26 25 24 23 22 21 20 19 18 17 16 15 14** We can see that N = 14, P = 16, R =18, T = 20, Hence, the next term is V = 22, X = 24.	Hence, **V-22, X-24 is the right answer.**

Question 84 :

The above figure is embedded in one of these four figures. Identify that figure.

Difficulty : Moderate

Average Time : 125 Seconds

Options :

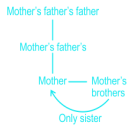
1. A
2. D

C

4. B

Solution :

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

Understanding	Application
 From the above diagram, we can see that the question figure is embedded in this figure i.e, **a.**	Hence, the figure in option 4 is the right answer.

Question 85 :

Son and father both identified that Figure a and b are related in a particular way or manner. Establish the same 7 relationship between c and d choosing from five alternatives.

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

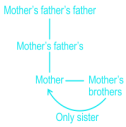
Options :

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

Solution :

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

Understanding	Application

Son and father both identified that Figures a and b are related in a particular way or manner.  Figure a and b are related in the same way c and d also related to each other.  The above figure is the figure that fits in blank **d**.	Hence, **option 3 i.e. 4** is the right answer.

Question 86 :

Pointing to a photograph of a person Ramesh said, "This person is the son oldie only child of my mother." Then how is Ramesh. related to that person?

Difficulty : Moderate

Average Time : 74 Seconds

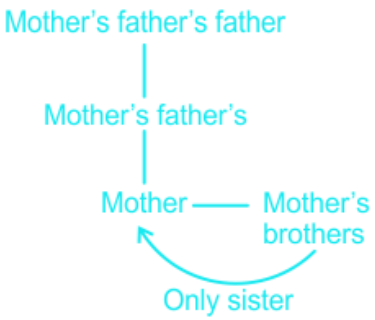
Options :

1. Uncle
2. Grand Father
3. Father
4. Brother

Solution :

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

Understanding	Application

 From the above figure, we can see that Ramesh is the father of that person.	Hence, **option 3 i.e, Father** is the correct answer.

Question 87 :

Find the next number in the given series. 8, 14, 23, ?, 50

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

Options :

1. 35
2. 34
3. 38
4. 40

Solution :

The correct answer is **option 1 i.e, 35.**

Understanding	Application

8, 14, 23, ?, 50 is the given series. We have to find the middle missing term. 14 - 8 = 6 23 - 14 = 9 So, the next difference is **12 and 15.** 23 + 12 = **35** 35 + 15 = 50 So the complete series is 8, 14, 23, **35**, 50	Hence, **option 1 i.e, 35** is the correct answer.

Question 88 :

Find the minor image of the given figure if the mirror is placed at line MN.

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

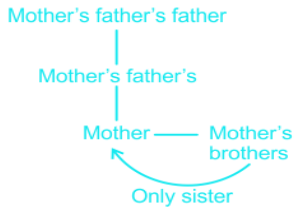
Options :

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

Solution :

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

Understanding



The above figure is the minor image of the given figure if the mirror is placed at line MN.

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

Question 89 :

Read the given statement(s) and conclusions carefully and select which of the conclusions logically follow(s) from the statement(s): Statement: "Don't park the vehicle here. Don't you see the no parking sign here?" says Ramu to Shamu. Conclusions: I. Ramu understands the meaning of no parking sign. II. Shamu does not follow the road rules.

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

Options :

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

Solution :

The correct answer is **option 2 i.e, Both I and II follow.**

Understanding	Application

The statement is "Don't park the vehicle here. Don't you see the no parking sign here?" says Ramu to Shamu. **Conclusions 1** Ramu understands the meaning of no parking sign. Because Ramu says it to Shamu it means he understands very well the road rules. So conclusion 1 follows.	Hence, Both Conclusions I and II follow.
Conclusions 2 Shamu does not follow the road rules is also follow because after seeing no parking sign, he parks his vehicle there.	

Question 90 :

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

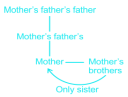
Options :

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

Solution :

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

Understanding	Application

In the question figure, we can see that in 1st-row the circle type ring is in decreasing order. In row 2, the circle type ring is also is in decreasing order. So same pattern is follow in 3rd row.  The above figure is the correct figure that fit in the blank.	Hence, **option 4 i.e, C** is the correct answer.

Question 91 :

Find the number of squares in the given picture.

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

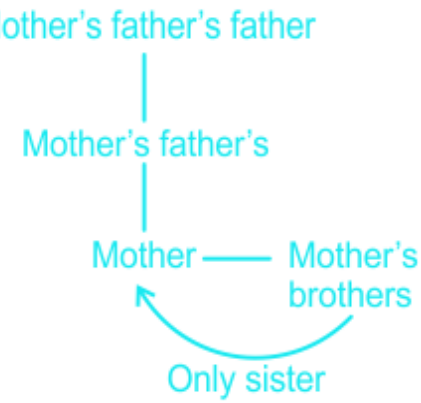
Options :

1. 8
2. 6
3. 12
4. 7

Solution :

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

Understanding



abcd, A, B, C, D, PQRS, 1, 2, 3, 4, O, UVWX.

Total 12 number of squares in the given picture.

Hence, **option 3 i.e, 12** is the correct answer.

Question 92 :

Read the given statements and conclusions carefully and select which of the conclusions logically follow(s) from the statements. Statements: 1. All buses are cars. 2. All ships are cars Conclusions: I. All cars are ships

Difficulty : Moderate

Average Time : 56 Seconds

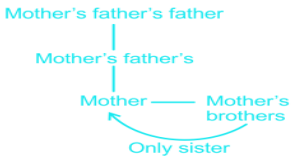
Options :

1. Both I and II
2. Neither I or II
3. Only I
4. Only II

Solution :

The correct answer is **option 4 i.e, Only II.**

Understanding	Application

 Conclusions: I. All cars are ships = False II. All buses are cars = True	Hence, **option 4 i.e, Only II** follows.

Question 93 :

Select the option that is related to the third word on the same basis as the second word is related to the first word.
instrument : Play :: Bell :

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

Options :

1. Ring
2. Sound
3. Shape
4. Metal

Solution :

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

Understanding	Application
The instrument is for Play.	In the same way, Bell is related to the ring.

Question 94 :

You are given a question and three statements. Identify which of the statements is/are necessary/sufficient to answer the question: Question: In which year was Aarti born? Statements: I. Aarti is six years older than Pranavi. II. Pranavi's sister was born in 1982. III. Aarti's sister is two years younger than Pranavi's sister, who is eight younger than Pranavi.

Difficulty : Moderate

Average Time : 57 Seconds

Options :

1. Only II and III are sufficient
2. Only I and III are sufficient
3. All I, II and III are necessary
4. Only I is sufficient

Solution :

The correct answer is **option 3 i.e, All I, II, and III are necessary.**

Understanding	Application
From II we get that the Pranavi's sister age is 2020 - 1982 = 38 So, Pranavi's sister age is 38 **From III** Aarti's sister is two years younger than Pranavi's sister, who is eight years younger than Pranavi. It means Aarti's sister age is 36 and Pranavi's age is 46 (38 + 8). **From I** i.e, Aarti is six years older than Pranavi We get Aarti age = 52(46 + 6).	Hence, **All I, II, and III** are necessary to answer the question.

Question 95 :

6 6 8 5 5 3 7 3 7 2 5 8 8 7 8 1 5 5 3 6 How many 5 are there in the above sequence that is completely divisible by the number on their left but not divisible by the number on their right?

Difficulty : Moderate

Average Time : 79 Seconds

Options :

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

Solution :

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

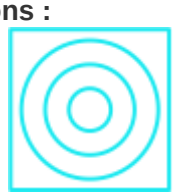
Understanding	Application
6 6 8 5 5 3 7 3 7 2 5 8 8 7 8 1 5 5 3 6 we have to find the number of 5 in the above sequence that is completely divisible by the number on their left but not divisible by the number on their right. 6 6 8 **5 5** 3 7 3 7 2 5 8 8 7 8 1 **5 5** 3 6	We can see that there are 2 times 5 which are preceded by 5, which means 5 is completely divisible by the number on their left but not divisible by the number on their right. Hence, **option 1 i.e, 2** is the right answer.

Question 96 :

Choose the best suitable Venn diagram for the following words: "Bus, Engine, Piston"

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

Options :

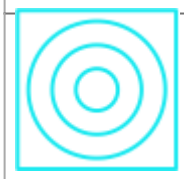
1. 
2.

3. 

4. 

Solution :

The correct answer is **option 4**

Application
 The above diagram is the best suitable Venn diagram for the word "Bus, Engine, Piston". Hence, **option 4** is the correct answer.

Question 97 :

Pick the figure that will complete the given series.

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

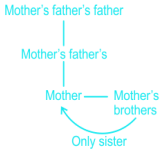
Options :

1. A
2. C
3. B

D

Solution :

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

Understanding	Application
 The above diagram will complete the given series.	Hence, **option 2 i.e, C** is the correct answer.

Question 98 :

How is Madhuri's brother's only sister's father's father related to her?

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

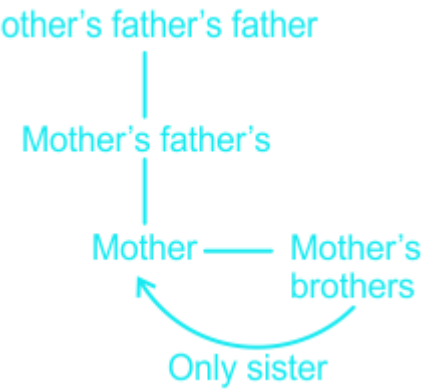
Options :

1. Brother
2. Uncle
3. Father
4. Paternal Grandfather

Solution :

The correct answer is **option 4 i.e, Paternal Grandfather.**

Understanding	Application



From the above figure, we see that Madhuri's brother's only sister is Madhuri.

Madhuri's father's father is her Paternal grandfather.

Hence, **Paternal Grandfather** is the correct answer.

Question 99 :

The substances whose odour changes in acidic or basic media are called .....

Difficulty : Moderate

Average Time : 57 Seconds

Options :

1. Natural indicators
2. Synthetic indicators
3. Acid-base indicators
4. Olfactory indicators

Solution :

The correct answer is **option 4**, i.e., ***Olfactory indicators.***

- **An Olfactory indicator is a substance whose smell varies depending on whether it is mixed with an acidic or basic solution.** Olfactory indicators can be used in the laboratory to test whether a solution is a base or an acid, a process called olfactory titration. Onion, clove oil and vanilla extract are examples.
- Natural Indicator is a type of indicator that can be found naturally and can determine whether the substance is an acidic substance or a basic substance.
- A **synthetic indicator** is a man-made chemical substance used to determine pH.
- **Acid-base indicators** are chemicals used to determine whether an aqueous solution is acidic, neutral, or alkaline.

Question 100 :

Which of the following statements is/are true/false about the speed of sound in different media at 25°C? A. In oxygen gas, speed of sound is 316 m/s. B. In water (distilled), the speed of sound is 1498 m/s.

Difficulty : Moderate **Average Time : 80 Seconds**

Options :

1. Only A is true
2. Neither A nor B are true
3. Both A and B are true
4. Only B is true

Solution :

The correct answer is option 3, i.e., Both A and B are true.

Substance	Speed in m/s
Sea Water	1531
Distilled Water	1498
Air	346

Oxygen	316

Rrb Group D CBT - 1 Previous Year Question Paper Analysis

The analysis of Rrb Group D CBT - 1 Previous Year Question Paper held on 2018-10-03 in the Afternoon exam is as follows:

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

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

CBT -1

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

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

2. Rrb Group D CBT - 1 Previous Year Question Paper require proper usage of concept so firstly read the question thoroughly and then use the right concept.
3. In case you're not able to solve the question in less than 30 seconds in the exam then you should skip the question and move to the next question.

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following link Click Here however if you want to practice more questions then please refer the following link Click Here.

About Neetu Mam

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