

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 2018-12-17 in the Morning exam. The detailed solutions are also provided for every previous year question and some of these questions can be asked again in your Rrb Group D CBT - 1 exam. There are 100 questions in the exam and 90 minutes are provided for the Rrb Group D CBT - 1 exam. The Cutoff of the exam was 77 marks hence you should try to score at least 87 marks.

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

Question 1 :

Who is the lead actress in the movie "Mary Kom"?

Difficulty : Moderate

Average Time : 43 Seconds

Options :

1. Priyanka Chopra
2. Manisha Koirala
3. Kareena Kapoor
4. Deepika Padukone

Solution :

The correct answer is **option 1**, i.e., **Priyanka Chopra**.

- The film 'Mary Kom' stars **Priyanka Chopra in the lead role of the eponymous boxer**, with Darshan Kumar and Sunil Thapa in supporting roles of her husband and mentor, respectively.
- The film is a biopic of Mangte Chungneijang Mary Kom who is an Indian Olympic boxer and incumbent Member of Parliament, Rajya Sabha.

Question 2 :



A car starting from rest accelerates in a straight road at a constant rate of 3.0 for 8 s. Find the distance traveled by car during this time.

Difficulty : Moderate

Average Time : 59 Seconds

Options :

1. 75 m
2. 86 m
3. 96 m
4. 100 m

Solution :

The correct answer is **option 3**, i.e., **96 m**.

Since the initial velocity of the car is zero, then the distance formula for this motion is

$$d = u + \frac{1}{2}at^2$$

where,

d = the distance traveled,

a is the acceleration of the car and

t is the elapsed time.

$$\begin{aligned}d &= u + \frac{1}{2}at^2 \\ &= 0 + \frac{3 \times 8 \times 8}{2} \\ &= \frac{192}{2} \\ &= 96 \text{ m}\end{aligned}$$

Question 3 :

Joule/coulomb is the same as:

Difficulty : Moderate

Average Time : 56 Seconds

Options :

1. 1 volt
2. 1 kWh
3. 1 watt
4. 1 ohm

Solution :

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

- **Joule** is a unit for work done and **coulomb** is the unit for the charge.
- The potential is defined as the ratio of the work done to the charge and the unit of the potential difference is volt.
- Hence, one joule per coulomb is equal to the unit of the potential difference. Therefore **it will be equal to one volt**.

Question 4 :

Tarapur Atomic Power Station is located in Tarapur, in

Difficulty : Moderate

Average Time : 56 Seconds

Options :

1. Maharashtra
2. Karnataka
3. Madhya Pradesh
4. Odisha

Solution :

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



- Tarapur Atomic Power Station is located in Tarapur, Palghar, Maharashtra, India.
- It was the first commercial nuclear power station built in India.

Question 5 :

Electronegativity from left to right in a row in the periodic table and electro positivity from left to right in a row in the periodic table

Difficulty : Moderate

Average Time : 47 Seconds

Options :

1. decreases, increases
2. decreases, decreases
3. increases, increases
4. increases, decreases

Solution :

The correct answer is **option 4**, i.e., **increases, decreases**.

Electronegativity

- Definition: The tendency of an atom to **attract a shared electron in a chemical bond**
- **Increases going right** because there are **more protons** in the nucleus attracting outer electrons

Electropositivity

- **Definition:** Tendency of atoms to lose electrons and form positive ion is known as **electropositivity**.
- In a period **electropositivity decreases** because of the increase in ionization energy along a period.

Question 6 :

..... cells are embedded in a hard matrix that is composed of calcium and phosphorus.



Difficulty : Moderate

Average Time : 65 Seconds

Options :

1. Ligament
2. Blood
3. Bone
4. Cartilage

Solution :

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

- **Bone cells are embedded in a hard matrix that is composed of calcium and phosphorus compounds.** OSTEOCYTES are the cells inside the bone.

Question 7 :

The characteristic of sound by which we can distinguish between two sounds of the same loudness and pitch is known as:

Difficulty : Moderate

Average Time : 47 Seconds

Options :

1. quality
2. intensity
3. pitch
4. loudness

Solution :

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



- **Quality or timbre** is a characteristic of a sound that enables us to distinguish between the sounds of the same Loudness or pitch.
- **Sound** intensity, also known as acoustic intensity, is defined as the power carried by sound waves per unit area in a direction perpendicular to that area.
- **Pitch** is the quality that makes it possible to judge sounds as "higher" and "lower" in the sense associated with musical melodies.
- **Loudness** refers to how loud or soft a sound seems to a listener.

Question 8 :

Which of the following is NOT an example of non-uniform motion?

Difficulty : Moderate

Average Time : 66 Seconds

Options :

1. A man running a 800 m race
2. The rotation of the blades of a ceiling fan
3. A car moving on a crowded street
4. A person jogging in a park

Solution :

The correct answer is **option 1**, i.e., *A man running an 800 m race.*

- **Uniform motion** is defined as the motion of an object in which the object travels in a straight line and its velocity remains constant along that line as it covers equal distances in equal intervals of time, irrespective of the duration of the time.
- Examples of Uniform motion are: Movement of hands of a watch, Rotation and revolution of the earth, Movement of the blades of a ceiling fan, etc.
- **Non-uniform motion** occurs when an object travels different distances in equal time intervals.

Question 9 :

Gauri Lankesh, who was shot dead in 2017 hails from which state?

Difficulty : Moderate

Average Time : 70 Seconds

Options :

1. Tamil Nadu
2. Andhra Pradesh
3. Karnataka
4. Maharashtra

Solution :

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

- Gauri Lankesh was an Indian journalist-turned-activist from Bangalore, Karnataka.
- She worked as an editor in Lankesh Patrike, a Kannada weekly started by her father P. Lankesh and ran her own weekly called Gauri Lankesh Patrike.
- She was shot dead on September 5, 2017.

Question 10 :

Which of the following is NOT a part of a neuron?



Difficulty : Moderate

Average Time : 49 Seconds

Options :

1. Neurilemma
2. Nissl granules
3. Sacrolemma
4. Axon

Solution :

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

- The **neuron** is the basic working unit of the brain, a specialized cell designed to transmit information to other nerve cells, muscle, or gland cells.
- Most neurons have a cell body, an **axon**, and dendrites.
- **Neurelmma** is the thin sheath around a nerve axon (including myelin where this is present).
- A **Nissl** body, also known as Nissl substance and Nissl material, is a large granular body found in neurons.
- The **sarcolemma** also called the myolemma, is the cell membrane of a striated muscle fiber cell.

Question 11 :

What is the full form of UIDAI?

Difficulty : Moderate

Average Time : 66 Seconds

Options :

1. United Indian Data Analytics Internal
2. Universal Indian Data Analysis Internal
3. Unique Indian Data Archive
4. Unique Identification Authority of India

Solution :

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The correct answer is **option 4**, i.e., **Unique Identification Authority of India**.

- **The Unique Identification Authority of India (UIDAI)** is a statutory authority established under the provisions of the Aadhaar (Targeted Delivery of Financial and Other Subsidies, Benefits and Services) Act, 2016 (“Aadhaar Act 2016”) on 12 July 2016 by the Government of India, under the Ministry of Electronics and Information Technology.

Question 12 :

The thrust exerted by a body on a surface =?

Difficulty : Moderate

Average Time : 56 Seconds

Options :

1. the volume of the body
2. the density of the body
3. the weight of the body
4. the mass of the body

Solution :

The correct answer is **option 3**, i.e., **the weight of the body**.

- **Thrust:** The net force exerted by a body in a particular direction. (Thrust = weight of the body)

Question 13 :

Metals can displace each other according to their:

Difficulty : Moderate

Average Time : 46 Seconds

Options :

1. Conductivity



Resistivity

3. Testability

4. Reactivity

Solution :

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

- **Only a metal higher in the reactivity series will displace another.**
- Electrical resistivity and its inverse, electrical conductivity, is a fundamental property of a material that quantifies how strongly it resists or conducts electric current. A low resistivity indicates a material that readily allows electric current.

Question 14 :

Fertilization occurs in the

Difficulty : Moderate

Average Time : 49 Seconds

Options :

1. Vagina
2. Uterus
3. Fallopian tube
4. Cervix

Solution :

The correct answer is **option 3**, i.e., **Fallopian tube**.

- **Fertilization takes place in the fallopian tubes**, which connect the ovaries to the uterus.
- Fertilization happens when a sperm cell successfully meets an egg cell in the fallopian tube.
- Once fertilization takes place, this newly fertilized cell is called a zygote.

**Question 15 :**

The Great Indian Desert is also known as the desert

Difficulty : Moderate

Average Time : 50 Seconds

Options :

1. Kalahari
2. Gobi
3. Sahara
4. Thar

Solution :

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

- **The Thar Desert**, also known as the Great Indian Desert, is a large arid region in the northwestern part of the Indian subcontinent that covers an area of 200,000 km² (77,000 sq mi) and forms a natural boundary between India and Pakistan.

Question 16 :

A student lifts a heavy book from the floor of a room to put it in the bookshelf at a height 2 m For this process, the student takes 5 s. The work done by the student will depend upon:

Difficulty : Moderate

Average Time : 55 Seconds

Options :

1. the height of the book shelf and the time taken
2. the mass of the book, the height of the book shelf and the time taken
3. the mass of the book and the time taken
4. the weight of the book and the height of the bookshelf

Solution :

The correct answer is **option 4**, i.e., **the weight of the book and the height of the bookshelf**.

- Work done=Force × displacement
- Force=weight of book
- Displacement=height of shelf

Question 17 :

The terms 'Birdie' and 'Eagle' are used in which of the following sport/game?

Difficulty : Moderate

Average Time : 56 Seconds

Options :

1. Basket ball
2. Shooting
3. Golf
4. Boxing

Solution :

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

- In the 15th Century, The golf game was played first time in history in the Kingdom of Scotland.
- The definition of **Birdie** in Golf is " One stroke under par " .
- In golf, "**eagle**" is the term used when a golfer scores a 2-under par on any individual hole. Each hole on a golf course is designated as a par 3, par 4 or par 5 (and rarely par 6), with "par" representing the number of strokes that an expert golfer is expected to need to complete play of that hole.

Question 18 :

The child will be a male if the zygote has an combination.

Difficulty : Moderate

Average Time : 65 Seconds

Options :



XO

2. XXY

3. XY

4. XX

Solution :

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

- If the egg is fertilized by a sperm with an X chromosome, the embryo develops into a female with an XX genotype. **When the sperm carries a Y chromosome, a male embryo results, with an XY genotype.**
- Gender is determined by sex chromosomes.

Question 19 :

An object of mass 10 kg is moving with a uniform velocity of 4 ms⁻¹. Find the kinetic energy possessed by the object.

Difficulty : Moderate

Average Time : 53 Seconds

Options :

1. 80 W

2. 80 Pa

3. 80 N

4. 80 J

Solution :

The correct **answer 4**, i.e., **80 J**.

$$\begin{aligned} KE &= \frac{1}{2} mv^2 \\ &= \frac{1 \times 10 \times 4 \times 4}{2} \\ &= \frac{160}{2} \\ &= 80 \text{ J} \end{aligned}$$

Question 20 :

Electric current equals to?

Difficulty : Moderate

Average Time : 39 Seconds

Options :

1. $I = t$
2. $I = t$
3. $I = Q/t$
4. $I = W/t$

Solution :

The correct answer is **option 3**, i.e., $I = Q/t$.

- If a charge Q flows through the cross-section of a conductor in time t , the current I then $I=Q/t$.
- The S.I unit of charge is coulomb and the measurement of electric current happens in units of coulomb per second which is 'ampere'.

Question 21 :

A Memorandum of Understanding (MoU) was signed between the Indian Army and which bank on the former's Defence Salary Package?



Difficulty : Moderate

Average Time : 57 Seconds

Options :

1. Canara Bank
2. State Bank of India
3. Reserve Bank of India
4. Indian Bank

Solution :

The correct answer is **option 2**, i.e., **State Bank of India**.

- A Memorandum of Understanding (MoU) was signed between the Indian Army and **State Bank of India** on the Defence Salary Package on 12 July 2018.
- The first MoU between SBI and the Indian Army was signed in 2011 and was renewed on 23 Feb 2015.
- The revised MoU is tailor-made to suit the requirements of serving soldiers, pensioners and families.

Question 22 :

Ankur Mittal was awarded the Arjuna Award (2018) for

Difficulty : Moderate

Average Time : 55 Seconds

Options :

1. golf
2. boxing
3. shooting
4. wrestling

Solution :

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



- Ankur Mittal is an Indian shooter. He won Gold in Double Trap event at the 2018 ISSF World Shooting Championships at Changwon, South Korea, and a silver medal at the 2017 World Championships.
- Ankur Mittal was awarded the prestigious Arjuna Award in 2018.

Question 23 :

Bauxite mines are abundantly found in which state?

Difficulty : Moderate

Average Time : 46 Seconds

Options :

1. Bihar
2. Rajasthan
3. Andhra Pradesh
4. Odisha

Solution :

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

- *Bauxite* is a sedimentary rock with a relatively high aluminium content.
- The state of Odisha is the largest producer of bauxite in India.

India has abundant resources of bauxite and serves as a raw material in the production of aluminum. As per the report of the Ministry of Mines, India stood at the 7th position in terms of the largest bauxite reserves in the world with about 2,908.85 million tonnes in the financial year 2016-17.

Question 24 :

An element has an atomic number of 15. With which of the following elements will it show similar chemical properties?

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

1. Be(4)
2. N(7)
3. Ne(10)
4. O(8)

Solution :The correct answer is **option 2**, i.e., **N(7)**.

- The valence electrons of the atomic number 15 have 5 electrons in its outermost shell. Nitrogen also has 5 electrons in its outermost shell. It also belongs to the 15th group and has the same chemical properties.

Question 25 :

As of February 2018, the Chairperson for Children's Film Society of India is

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

1. Mukesh Rishi
2. Mukesh Khanna
3. Mukesh Bhatt
4. Rishi Kapoor

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

Children's Film Society

Abbreviation	CFSI
Region served	India

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Chairperson	[Mukesh Khanna till Feb 2018]
Parent organization	Ministry of Information and Broadcasting

Question 26 :

As of February 2018, who was the Chief Justice of India?

Difficulty : Moderate

Average Time : 50 Seconds

Options :

1. HL Dattu
2. Dipak Misra
3. JS Khehar
4. TS Thakur

Solution :

The correct answer is **option 2**, i.e., **Dipak Misra**.

- Justice Dipak Misra is an Indian jurist who served as the 45th Chief Justice of India from 28 August 2017 till 2 October 2018.
- He is also a former Chief Justice of the Patna and Delhi High Courts.

Question 27 :

Who has been sworn as the Chief Minister of Tripura in 2018?

Difficulty : Moderate

Average Time : 47 Seconds

Options :

1. Sitaram Yechury
2. Biplab Kumar Deb
3. Ram Madhav

Manik Sarkar

Solution :

The correct answer is **option 2**, i.e., **Biplab Kumar Deb**.

- Biplab Kumar Deb is an Indian politician and the current Chief Minister of Tripura.
- He has been the state president of the Bharatiya Janata Party in Tripura since 7 January 2016.

Question 28 :

Which of the following solutions will be more Acidic?

Difficulty : Moderate

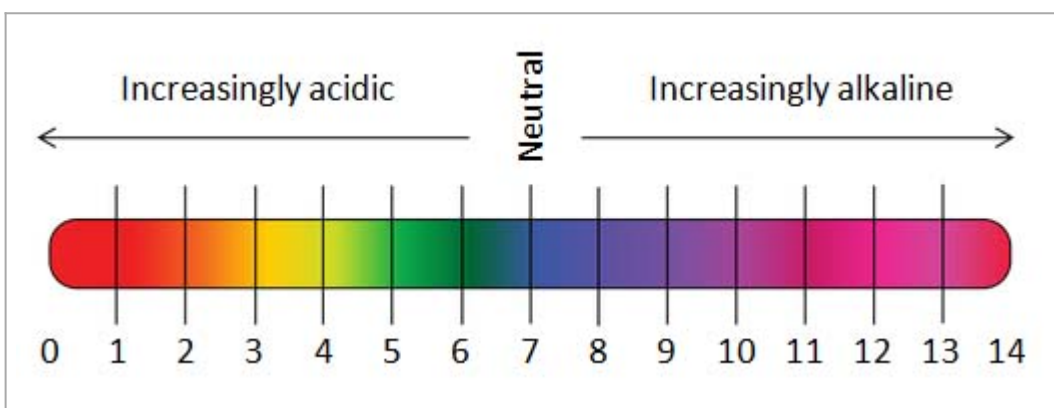
Average Time : 46 Seconds

Options :

1. pH = 2
2. pH = 6
3. pH = 1
4. pH = 0

Solution :

The correct answer is **option 4**, i.e., **pH = 0**.



Question 29 :



"The Blue Umbrella", which is a famous Children's movie, is directed by:

Difficulty : Moderate

Average Time : 43 Seconds

Options :

1. Vishal Bhardwaj
2. Shreya Sharma
3. Deepak Dobrival
4. Pankaj Kapur

Solution :

The correct answer is **option 1**, i.e., **Vishal Bhardwaj**.

- **The Blue Umbrella** is a 1980 Indian novel written by Ruskin Bond. It was adapted into the 2005 Hindi film by the same name, **directed by Vishal Bhardwaj**, which later won the National Film Award for Best Children's Film.

Question 30 :

What is the molecular formula of Butyne?

Difficulty : Moderate

Average Time : 50 Seconds

Options :

1. C_3H_4
2. C_4H_6
3. C_2H_2
4. C_4H_{10}

Solution :

The correct answer is **option 2**, i.e., **C_4H_6** .



- Butyne is a compound with the chemical formula of C_4H_6 .
- 1-Butyne, also known as ethyl acetylene, but-1-yne, ethylethyne, and UN 2452, is an extremely flammable and reactive alkyne

Question 31 :

The Cabinet Committee on Economic Affairs (CCEA) approved North East Road Network Connectivity Project (NERNCP) Phase I for development of 403 km of national highways in:

Difficulty : Moderate

Average Time : 56 Seconds

Options :

1. Meghalaya and Mizoram
2. Meghalaya and Nagaland
3. Meghalaya and Manipur
4. Meghalaya and Assam

Solution :

The correct answer is **option 1**, i.e., **Meghalaya and Mizoram**.

- **The Cabinet Committee on Economic Affairs (CCEA)** has **approved North East Road Network Connectivity Project (NERNCP) Phase I for the development of 403 kms of National Highways in Meghalaya and Mizoram.**
- Out of the total 403 km, approximately 351 km will be developed in Mizoram and 52 km in Meghalaya.

Question 32 :

If an object is at infinity, what will be the position of an image formed due to the convex lens?

Difficulty : Moderate

Average Time : 61 Seconds

Options :

At infinity

2. At focal point

3. Beyond F2

4. On C2

Solution :

The correct answer is **option 2**, i.e., **At focal point**.

- When an object is placed at infinity, the real image is formed at the focus. The size of the image is much smaller as compared to that of the object.
- When an object is placed behind the center of curvature, the real image is formed between the center of curvature and focus. The size of the image is the same as compared to that of the object
- When an object is at the center of curvature, the real image is formed at the other center of curvature. The size of the image is the same as compared to that of the object.
- When an object is placed in between the center of curvature and focus, the real image is formed behind the center of curvature. The size of the image is smaller as compared to that of the object.
- When an object is placed at the focus, a real image is formed at infinity. The size of the image is much larger as compared to that of the object.
- When an object is placed in between focus and pole, a virtual image is formed. The size of the image is larger as compared to that of the object

Question 33 :

The sex of an offspring is determined by which of the following?

Difficulty : Moderate

Average Time : 93 Seconds

Options :



DNA of the female gamete

2. DNA of the male gamete

3. Neither the DNA of the male nor the female gamete

4. DNA of the male and the female gamete

Solution :

The correct answer is **option 2**, i.e., **DNA of the male gamete**.

- In the XY sex-determination system, the female-provided ovum contributes an X chromosome and the male-provided sperm contributes either an X chromosome or a Y chromosome, resulting in female (XX) or male (XY) offspring, respectively. Hormone levels in the male parent affect the sex ratio of sperm in humans.

Question 34 :

The between two bodies are always equal and opposite.

Difficulty : Moderate

Average Time : 59 Seconds

Options :

1. inertia

2. forces

3. pressure

4. momentum

Solution :

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

- A force is a push or a pull that acts upon an object as a result of its interaction with another object.
- There are two forces resulting from this interaction. These two forces are called *action* and *reaction* forces and are the subject of Newton's third law of motion. Formally stated, Newton's third law is:
For every action, there is an equal and opposite reaction.

Question 35 :

Match the following with the correct response:

Difficulty : Moderate

Average Time : 67 Seconds

Options :

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

Solution :

The correct answer is **option 3**, i.e., **1 B, 2 D, 3 A, 4 C**.

(1)cobalt	(B)Co
(2)Copper	(D)Cu
(3)Sulphur	(A)S
(4)Sodium	(C)Na

Question 36 :

Which of these is not a Veda?

Difficulty : Moderate

Average Time : 52 Seconds

Options :

Atharva Veda

2. Rig Veda

3. Krishna Veda

4. Yajur Veda

Solution :

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

- The Vedas are a large body of religious texts originating in ancient India. Composed in Vedic Sanskrit, the texts constitute the oldest layer of Sanskrit literature and the oldest scriptures of Hinduism.
- There are four Vedas: **the Rigveda, the Yajurveda, the Samaveda, and the Atharvaveda**, and all of them together are attributed to as 'Chaturveda'.

Question 37 :

Shiromani Akali Dal is a regional political party of which of the following states?

Difficulty : Moderate

Average Time : 54 Seconds

Options :

1. Telangana
2. Punjab
3. Gujarat
4. Rajasthan

Solution :

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

- **The Shiromani Akali Dal is an Indian state political party in Punjab, India.** Although, there are many parties with the name Akali Dal the party recognized as "Shiromani Akali Dal" by the Election Commission of India is the one led by Sukhbir Singh Badal.

Question 38 :

Who among the following has got the power to commute the death sentence in India?

Difficulty : Moderate

Average Time : 52 Seconds

Options :

1. Chief Justice
2. Prime Minister
3. Home Minister
4. President

Solution :

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

- Article 72 empowers the President the power to grant pardons, reprieves, respites or remissions of punishment or to suspend, remit, or commute the sentence of any person convicted of any offense.
- Members of an electoral college that consist of **elected members of both the Houses of Parliament and the elected members of the Legislative Assemblies of States and the Union Territories of Delhi and Pondicherry elects President.**

**Question 39 :**

What is the position of the Indian men's hockey team in the Commonwealth Games 2018?

Difficulty : Moderate

Average Time : 59 Seconds

Options :

1. 2

2. 3

3. 4

4. 1

Solution :

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

- India's men's hockey team lost 1-2 to England in the bronze medal playoff at the 21st Commonwealth Games in Gold Coast coming at 4th position worldwide.

Question 40 :

Pather Panchali was written by

Difficulty : Moderate

Average Time : 41 Seconds

Options :

1. Bibhutibhushan Bandopadhyay

2. Munshi Premchand

3. Rabindranath Tagore

4. Pannalal Patel

Solution :

The correct answer is **option 1**, i.e., **Bibhutibhushan Bandopadhyay**.



- Pather Panchali, translated as Song of the Road is a novel written by **Bibhutibhushan Bandyopadhyay** and was later adapted into a film of the same name by **Satyajit Ray**.

Question 41 :

Who among the following was born in the year 1861?

Difficulty : Moderate

Average Time : 46 Seconds

Options :

1. Mahatma Gandhi
2. Rabindranath Tagore
3. Sri Aurobindo
4. Swami Vivekananda

Solution :

The correct answer is **option 2**, i.e., **Rabindranath Tagore**.

- Indian nationalist leader Gandhi (born Mohandas Karamchand Gandhi) was born on **October 2, 1869**, in Porbandar, Kathiawar, India, which was then part of the British Empire.
- Rabindranath Tagore (born **May 7, 1861**, Calcutta [now Kolkata], India—died August 7, 1941, Calcutta), Bengali poet, short-story writer, song composer, playwright, essayist, and painter who introduced new prose and verse forms and the use of colloquial language into Bengali literature.
- Shri Aurobindo was born on **15 August 1872** in Kolkata, West Bengal.
- Swami Vivekananda (**12 January 1863** – 4 July 1902), born Narendranath Datta was an Indian Hindu monk, a chief disciple of the 19th-century Indian mystic Ramakrishna.

**Question 42 :**

Choose the incorrect pair from the below.

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

1. pH of stomach acid- 1.0
2. pH of lemon juice- 2.0
3. pH of acid rain -5.0
4. pH of caustic soda- 5.0

Solution :

The correct answer is **option 4**, i.e., **pH of caustic soda- 5.0**.

bleach20table type unknown

Question 43 :

What was the position of noble gases in the Mendeleev's periodic table?

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

1. Noble gases, being very inert, were not necessarily put in the periodic table
2. Noble gases were there in the seventh group
3. Mendeleev divided all elements into 8 groups, so there was no place for noble gases
4. Noble gases were not discovered by that time

Solution :

The correct answer is **option 4**, i.e., **Noble gases were not discovered by that time**.

- In 1902, having accepted the evidence for the elements helium and argon, Dmitri **Mendeleev** included these **noble gases** as group 0 in his arrangement of the elements, which would later become the **periodic table**

**Question 44 :**

A bicyclist comes to a skidding stop in 10 m. During this process, the force on the bicycle due to the road is 200 N and is directly opposed to the motion. The work done by the cycle on the road is:

Difficulty : Moderate

Average Time : 67 Seconds

Options :

1. -2000J
2. 2000J
3. 200J
4. zero

Solution :

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

As the road does not move at all, the work done by the cycle on road is ZERO.

Question 45 :

A bicyclist comes to a skidding stop in 10 m. During this process, the force on the bicycle due to the road is 200 N and is directly opposed to the motion. The work done by the cycle on the road is:

Difficulty : Moderate

Average Time : 48 Seconds

Options :

1. -2000J
2. 2000J
3. 200J
4. zero

Solution :

The correct answer is option 1 i.e. -2000J

work done = $F \cdot s \cos \theta$



where θ = angle between force and displacement

here given the force on the bicycle due to the road directly opposed to the motion

hence $\theta = 180^\circ$

Work done = $200 \times 10 \times \cos 180^\circ = -2000\text{J}$

Question 46 :

An object of mass 10 kg is moving with a uniform velocity of 4 . Find the kinetic energy possessed by the object.

Difficulty : Moderate

Average Time : 45 Seconds

Options :

1. 80 W
2. 80 Pa
3. 80 N
4. 80 J

Solution :

The correct answer is option 4 i.e. 80 J

the kinetic energy of moving particle is given by

$$KE = 0.5 mv^2$$

given $m = 10 \text{ kg}$

$v = 4 \text{ m/s}$

$$KE = 0.5 \times 10 \times 4^2 = 80 \text{ J}$$

Question 47 :

If $x^2 + kx + 7.5k = 0$ has no solution, then the value of k will satisfy:

Difficulty : Moderate

Average Time : 40 Seconds

Options :

1. $0 < k < 30$
2. $k < 0$
3. $k > 30$



k 30

Solution :

The correct answer is option 1 i.e 0 k 30

Understanding

since equation has no solution

then for no solution

$$b^2 - 4ac < 0$$

Application

here $b = k$, $a = 1$, $c = 7.5k$

equation has no solution

$$b^2 - 4ac < 0$$

$$k^2 - 4 \times 7.5k < 0$$

$$k(k - 30) < 0$$

for this to be happen

$$k > 0 \text{ and } k < 30$$

Question 48 :

Which of the numbers given below is NOT a perfect square?

Difficulty : Moderate

Average Time : 58 Seconds

Options :

1. 26248

2. 20164

3. 24336

4. 33856

Solution :

The correct answer is option 1 i.e. 26248

Understanding/Application

- i) 26248
- ii) 20164
- iii) 24336
- iv) 33856

There is only a number that has a unit place is 8 so, 26248 is not a perfect square. Because after squaring any numbers unit place must be 0, 1, 4, 5, 6, 9. If any numbers have unit place is 2, 3, 7 or 8 that is not a perfect square.

Question 49 :

Curved surface area of Cone P is seven times the curved surface area of Cone Q. Slant height of Cone Q is seven times the slant height of Cone P. What will be the ratio of the area of the base of Cone P to the area of the base of Cone Q?

Difficulty : Moderate

Average Time : 58 Seconds

Options :

- 1. 2401: 1
- 2. 343: 1
- 3. 49 : 1
- 4. 7 : 1

Solution :

The correct answer is option 1 i.e. 2401:1

Understanding/Application

Curved surface area of P and Q = P: Q = 7:1

slant height of cone P and Q = P:Q = 7:1

So,

Volume of cone P and Q = P: Q = $7^3:1^3 = 343:1$

Base area of cone P and Q = P:Q = $(343 \times 7):(1 \times 1) = 2401:1$

Question 50 :



A polygon with n sides will have how many corners?

Difficulty : Moderate

Average Time : 46 Seconds

Options :

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

Solution :

The correct answer is option 1 i.e. n

Understanding/Application

Given,

Number of sides = n

We know that, Number of sides is equal to the number of angles, and the angle is also known as the corner.

So,

Number of Corner = Number of angle = Number of sides = n

Question 51 :

It took 64 people 77 days to construct a house. What fraction of the work can be completed by 44 people in 96 days?

Difficulty : Moderate

Average Time : 50 Seconds

Options :

1. $3/4$
2. $4/5$
3. $6/7$
4. $2/3$

Solution :

The correct answer is option 3 i.e. $6/7$



Understanding/Application

Total work = (Man \times Day) = (64 \times 77) units

If

Man = 44

Day = 96

Work completed = $(44 \times 96)/(64 \times 77) = 6/7$

Hence, $6/7$ part of work completed of total,
when 44 men works for 96 days.

Question 52 :

Pipe A takes 4 hours to fill a tank. Pipe B takes 6 hours to empty the same tank when full. If both the pipes are opened at the same time when the tank is empty, how many hours will it take for the tank to fill?

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

1. 10
2. 8
3. 12
4. 15

Solution :

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

Understanding/Application

A = 4 hours

B = 6 hours (work for negative)

Total capacity of tank = LCM of 4 and 6 = 12
liters

Efficiency of A $12/4 = 3$

Efficiency of B $12/6 = 2$

When work together,

Time = $T.W/(\text{Efficiency of A} - \text{Efficiency of B}) =$
 $12/(3 - 2) = 12/1 = 12$ hours

Question 53 :

Type-1 workers are 2.25 times as efficient as Type-2 workers. 30 Type-1 workers can do a piece of work in 6.4 days. How many days would it have taken 4 Type-1 and 15 Type-2 workers to do the same work?

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

1. 18
2. 19
3. 17
4. 20

Solution :

The correct answer is option 1 i.e. 18 Days

Understanding/Application



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Type 1 Efficiency = $2.25x$

Type 2 Efficiency = x

Type 1 workers = 30

Day = 6.4

Total work = $30 \times 6.4 \times 2.25x = 432x$

If

Type 1 worker = 4

Type 2 worker = 15

Time = $432x / (4 \times 2.25x + 15 \times x)$

= $432x / (9x + 15x)$

= $432x / 24x = 18$ days

Question 54 :

Which of the following is a rational number?

Difficulty : Moderate

Average Time : 47 Seconds

Options :

1.

2.

3.

4.

Solution :

The correct answer is option 1 i.e.

Understanding/Application

i) = 3^4 (3 is rational number)

The other 3 options are in decimal, so only is a rational number.

Question 55 :



Which is the smallest natural number having exactly 10 factors?

Difficulty : Moderate

Average Time : 68 Seconds

Options :

1. 36
2. 24
3. 16
4. 48

Solution :

The correct answer is option 4 i.e. 48

Understanding/Application

- i) factors of 36 = 1, 2, 3, 4, 6, 9, 12, 18 and 36
ii) factors of 24 = 1, 2, 3, 4, 6, 8, 12, and 24
iii) factors of 16 = 1, 2, 4, 8 and 16
iv) factors of 48 = 1, 2, 3, 4, 6, 8, 12, 16, 24 and 48
Here, 48 have 10 factors.

Question 56 :

A pipe can fill a tank in 12 hours. By mistake another pipe that empties the tank is left open and the tank is filled in 16 hours. If the tank is full, how much time will the second pipe take to empty it?

Difficulty : Moderate

Average Time : 50 Seconds

Options :

1. 48 minutes
2. 48 days
3. 2.01 days
4. 48 hours

Solution :

The correct answer is option 4 i.e. 48 hours

Understanding/Application

A = 12 hours

(A + B) = 16 hours

Total capacity of tank = LCM of 12 and 16 = 48 liters

Efficiency of A = $48/12 = 4$

Efficiency of (A + B) = $48/16 = 3$

So, Efficiency of B = $4 - 3 = 1$

B can empty in = T.C/Efficiency of B = $48/1 = 48$ hours

Question 57 :

The hypotenuse of a right-angled triangle is 14 cm long. What is the area of the circumcircle of the said triangle? [Use = $22/7$]

Difficulty : Moderate

Average Time : 50 Seconds

Options :

1. 264 cm^2
2. 308 cm^2
3. 286 cm^2
4. 312 cm^2

Solution :

The correct answer is option 2 i.e. 308 cm^2

Understanding

The hypotenuse of a right-angled triangle is the diameter of the circumcircle.

given D = $14\sqrt{2}$ cm

Application



area of circle = $D^2/4$

$$A = (22/7)(14\sqrt{2})^2/4 = 308 \text{ cm}^2$$

Question 58 :

Which of the numbers below will have an irrational square root?

Difficulty : Moderate

Average Time : 59 Seconds

Options :

1. 7569
2. 6084
3. 3368
4. 1444

Solution :

The correct answer is option 3 i.e. 3368

Understanding/Application

- i) 7569
- ii) 6084
- iii) 3368
- iv) 1444

There is only a number that has a unit place is 8 so, 3368 is not a perfect square. Because after squaring any numbers unit place must be 0, 1, 4, 5, 6, 9. If any numbers have unit place is 2, 3, 7 or 8 that is not a perfect square.

Square root of 3368 = 58.0344 (i.e. not rational number so, 3368 is irrational square root)

Question 59 :

Amit and Pankaj together have ? 1,080. If $15/29$ (Amount with Amit) = $3/5$ (Amount with Pankaj) . then what is the amount with Amit?

Difficulty : Moderate

Average Time : 53 Seconds

Options :



? 580

2. ? 1,160

3. ? 500

4. ? 290

Solution :

The correct answer is option 1 i.e. Rs 580

Understanding/Application

Let,

Amit's investment = x

Pankaj's investment = (1080 - x)

A/q-

$15/29$ (Amount with Amit) = $3/5$ (Amount with Pankaj)

$15/29(x) = 3/5(1080 - x)$

$x/(1080 - x) = (3/5)/(15/29)$

$x/(1080 - x) = 29/25$

$x = 29/25(1080 - x)$

$x = \{(29/25)(1080)\} - (29/25)x$

$x + (29/25)x = \{(29/25)(1080)\}$

$54x/25 = \{(29/25)(1080)\}$

$x = (29 \times 1080 \times 25)/(25 \times 54)$

$x = 29 \times 20 = \text{Rs } 580$

Question 61 :

A mother, after 4 years, will be twice the age of her daughter. The sum of their present ages is 46. What is the daughter's age today?

Difficulty : Moderate

Average Time : 56 Seconds

Options :



1. 10 years
2. 14 years
3. 12 years
4. 15 years

Solution :

The correct answer is option 2 i.e. 14 years

Understanding/Application

Given,

$$(M + D)'s \text{ age} = 46 \text{ years}$$

$$(M + 4) = 2D$$

$$M + 4 + D + 4 = 46 + 4 + 4 = 54 \text{ years}$$

After 4 years ratio of age of

$$M:D = 2:1$$

$$\text{So, } 54/(2 + 1) = 18$$

$$\text{Daughter's age after 4 years} = 18 \times 1 = 18 \text{ years}$$

$$\text{Hence, present age of daughter} = 18 - 4 = 14 \text{ years}$$

Question 62 :

Pipe A is an inlet pipe that can fill an empty cistern in 8.7 hours. Pipe B can drain a filled cistern in 5.8 hours. When the cistern was filled the two pipes are opened one at a time for an hour each, starting with Pipe B. How long will it take for the cistern to be empty?

Difficulty : Moderate

Average Time : 61 Seconds

Options :

1. 32 hours 16 minutes
2. 30 hours 48 minutes
3. 32 hours



31 hours

Solution :

The correct answer is option 2 i.e. 30 hours 48 minutes

Understanding/Application

Given,

$$A = 8.7 \text{ hours}$$

$$B = 5.8 \text{ hours}$$

$$\text{Capacity of tank} = \text{LCM of } 8.7 \text{ and } 5.8 = 17.4 \text{ liters}$$

So,

$$\text{Efficiency of A} = 17.4/8.7 = 2$$

$$\text{Efficiency of B} = 17.4/5.8 = 3 \text{ (Work as negative)}$$

start with B and work as alternative hours

$$1\text{st hr} + 2\text{nd hr} = -3 + 2 = -1 \text{ liters}$$

$$\text{For 15 liters drain time} = 15 \times (1) \times 2 = 30 \text{ hours (Because 1 liter drain in 2 hours)}$$

$$\text{now Remaining amount} = 17.4 - 15 = 2.4$$

$$\text{Remaining done by B} = 2.4/3 = 4/5 \text{ hours} = (4/5)60 \text{ min} = 48 \text{ min}$$

$$\text{Hence, total time taken to empty the full tank} = 30 \text{ hours } 48 \text{ minutes}$$

Question 63 :

In a triangle ABC, if $AB = BC$ and the measure of angle C is 75° , then the measure of angle B is:

Difficulty : Moderate

Average Time : 64 Seconds

Options :

1. 30°
2. 60°
3. 75°
4. 52.5°

Solution :

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The correct answer is **option 1** i.e. **30°**

Application

In triangle ABC

Given,

$$AB = BC$$

$$\angle C = 75^\circ$$

$\angle A = 75^\circ$ (Two sides are equal, this is an isosceles triangle)

We know that, Sum of all angles of the triangle = 180°

$$\angle C + \angle A + \angle B = 180^\circ$$

$$75^\circ + 75^\circ + \angle B = 180^\circ$$

$$\angle B = 180^\circ - (75^\circ + 75^\circ) = 180^\circ - 150^\circ = 30^\circ$$

Question 64 :

A man bought bananas at the rate of ₹ 8 for 10 pieces and sold them at the rate of ₹ 10 for 8 pieces. How many bananas should he sell to earn a profit of ₹ 90?

Difficulty : Moderate

Average Time : 62 Seconds

Options :

1. 300
2. 200
3. 100
4. 400

Solution :

The correct answer is option 2 i.e. 200 pieces

Understanding/Application

CP of 1 banana = $8/10 = 4/5$

SP of 1 banana = $10/8 = 5/4$

Profit on 1 piece of banana = $SP - CP = (5/4) - (4/5) = 9/20$

Now,

For Rs 90 profit = $90/(\text{profit on 1 banana}) = 90/(9/20) = 10 \times 20 = 200$ pieces

Question 65 :

What is the least natural number which when divided by 8, 12, 15 or 16 leaves a remainder of 7?

Difficulty : Moderate

Average Time : 50 Seconds

Options :

1. 247
2. 548
3. 257
4. 614

Solution :

The correct answer is option 1 i.e. 247

Understanding/Application

LCM of 8, 12, 15 and 16 = 240

Required number = LCM of number + remainder

Required number = $240 + 7 = 247$

Question 66 :

A sum of money, invested at 7.5% simple interest p.a. became ? 689 on maturity after 4 years. What was the original sum invested?

Difficulty : Moderate

Average Time : 40 Seconds

Options :

1. ? 560



? 520

3. ? 530

4. ? 540

Solution :

The correct answer is option 3 i.e. Rs 530

Understanding/Application

Given,

Sum = Rs 689

ROI = $r = 7.5\%$

Time = 4 years

$P = ? = 100\%$

So, Total interest = $(7.5 \times 4) = 30\%$

$(100 + 30)\% = 689$

So,

$P = 100\% = (689/130)100 = 53 \times 10 = \text{Rs } 530$

Question 67 :

A sum of money, invested at 7.5% simple interest p.a. became ? 689 on maturity after 4 years. What was the original sum invested?

Difficulty : Moderate

Average Time : 45 Seconds

Options :

1. ? 560

2. ? 520

3. ? 530

4. ? 540

Solution :

The correct answer is option 3 i.e. Rs 530

Understanding/Application

Given,

Sum = Rs 689

ROI = $r = 7.5\%$

Time = 4 years

$P = ? = 100\%$

So, Total interest = $(7.5 \times 4) = 30\%$

$(100 + 30)\% = 689$

So,

$P = 100\% = (689/130)100 = 53 \times 10 = \text{Rs } 530$

Question 68 :

Ritesh drove at a speed of 60 km/h for 8 hours. For how many hours should he now drive at a speed of 80 km/h for the overall average speed to become 72 km/h?

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

1. 8
2. 12
3. 10
4. 15

Solution :

The correct answer is option 2 i.e 12 hr

Understanding/Application



1st speed = 60 km/hr

Time1 = 8 hours

2nd speed = 80 km/hr

Time2 = x (let)

Average speed = 72 km/hr

$[(60 \times 8) + (80 \times x)] / (8 + x) = 72$ km/hr

$[480 + 80x] / (8 + x) = 72$

$480 + 80x = (72 \times 8) + (72x)$

$80x - 72x = 576 - 480$

$8x = 96$

$x = 96/8 = 12$ hr

Question 69 :

Inclusive of an 18% peak-time surcharge a taxi fare came to ? 531. What would the payable amount have been without the surcharge?

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

1. ? 440
2. ? 425
3. ? 450
4. ? 475

Solution :

The correct answer is option 3 i.e. Rs 450

Understanding/Application

Surcharge = 18%

A/q-

$(100 + 18)\% = 118\% = \text{Rs } 531$

Without surcharge = 100%

So,

$100\% = (531/118)100 = 4.5 \times 100 = \text{Rs } 450$

Question 70 :

Choose one of the following options which is equal to: $(1+\cos)/\sin$

Difficulty : Moderate

Average Time : 40 Seconds

Options :

1. $\sin /(1\cos)$
2. $(1+\sin^2)/(\sin \cos)$
3. $(1+2 \cos)/(\sin \cos)$
4. $(12 \sin^2)/\cos$

Solution :

The correct answer is option 1 i.e. $\sin /(1\cos)$

given

$(1+\cos)/\sin$

taking conjugate of $(1+\cos)$

$= \{(1+\cos)(1-\cos)\}/\{\sin (1-\cos)\}$

$= (1-\cos^2)/\{\sin (1-\cos)\}$

$= \sin^2 / \{\sin (1-\cos)\}$

$= \sin /(1\cos)$

Question 71 :

The LCM of 145 and 87 is:



Difficulty : Moderate

Average Time : 49 Seconds

Options :

1. 580
2. 725
3. 290
4. 435

Solution :

The correct answer is option 4 i.e. 435

Understanding/Application

LCM of 145 and 87

$$145 = 5 \times 29$$

$$87 = 3 \times 29$$

$$\text{LCM} = 3 \times 5 \times 29 = 435$$

Question 72 :

$$66 \times 32 \div 23 + 8 = \dots\dots\dots?$$

Difficulty : Moderate

Average Time : 35 Seconds

Options :

1. 1060
2. 792
3. 132
4. 272

Solution :

The correct answer is **option 4** i.e. **272**

Application

Use BODMAS sequence

$$\begin{aligned}66 \times 32 \div 2^3 + 8 \\&= 66 \times 32 \div 8 + 8 \\&= 66 \times 4 + 8 \\&= 264 + 8 = 272\end{aligned}$$

Question 73 :

A car starting from rest, accelerates in a straight road at a constant rate of 3.0ms^{-1} for 8 s. Find the distance travelled by the car during this time.

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

1. 75 m
2. 86 m
3. 96 m
4. 100 m

Solution :

The correct answer is option 3 i.e. 96 meters

Understanding/Application



$$V = 3.0\text{ms}^{-1}$$

$$\text{Time} = t = 8 \text{ sec}$$

$$U = 0 \text{ (rest)}$$

$$\text{Formula: } V = U + at$$

So,

$$3 = 0 + a \times 8$$

$$3 = 8a$$

$$a = 3/8$$

Now,

$$\text{Speed} = ut + \frac{1}{2}at^2$$

$$= 0 \times 8 + \frac{1}{2} \times \frac{3}{8} \times (8)^2$$

$$= 0 + \frac{1}{2} \times (3) \times (8)$$

$$24/2 = 12 \text{ m/sec}$$

$$\text{So, Distance} = \text{Speed} \times \text{time}$$

$$= 12 \times 8 = 96 \text{ meters}$$

Question 74 :

Consider the following question and decide which of the statements is sufficient to answer the question. Question: Find the value of $p^2 - 4$. Statements: 1) $p/2 = 5/7$ 2) $p^2 = q^2 = 729$

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

1. Only 1 is sufficient
2. Either 1 or 2 is sufficient
3. Neither 1 nor 2 is sufficient
4. Only 2 is sufficient

Solution :

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

Understanding

Statements 1

$$p/2 = 5/7$$

$$p = 10/7$$

$$p^2 - 4 = (10/7)^2 - 4 = -96/49$$

Hence, only Statements 1 is sufficient.

Question 75 :

A statement is given followed by two conclusions labelled I and II. Consider the given statement to be true even if it seems to be at variance with the commonly known facts and then decide which of the given conclusions Logically follow(s) from the given statement disregarding the commonly known facts. Statement: Due to the decision to explode eight nuclear weapons at its test site, the nation is facing international opposition. Conclusions: I. The citizens of the nation supported the decision. II. Some powerful countries do not want other nations to become as powerful as they are.

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

1. Either conclusion I or II follows.
2. Only conclusion II follows
3. Neither conclusion I nor II follows.
4. Only conclusion I follows.

Solution :

The correct answer is **option 3 i.e. Neither conclusion I nor II follows.**

Understanding

Conclusion 1: This doesn't follow because information about citizen's support is not given in the statement.

Conclusion 2: This doesn't follow because information about powerful countries is not given.

Hence, **neither conclusion I nor II follows.**

Question 76 :

A statement is followed by two arguments. Decide which of the arguments is/are strong with respect to the statement.
Statement: The good aspects of edible oils are retained only when extracted by traditional cold-pressed methods.

Arguments: I. Yes, recent research says oil extracted by the old method is good for health. II. No, the cold-pressed oil is very costly and not affordable for common public

Difficulty : Moderate

Average Time : 69 Seconds

Options :

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

Solution :

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

Understanding	Application		
<p>The Statement is the good aspects of edible oils are retained only when extracted by traditional cold-pressed methods.</p> <p>Arguments 1 is Yes, recent research says oil extracted by the old method is good for health is follows because it is given about traditional cold-pressed methods in the statement.</p> <p>Arguments 2 is No, the cold-pressed oil is very costly and not affordable for the common public doesn't follow because information about the cost about cold-pressed oil is not strong.</p>	<p>Hence, the Only argument I is strong.</p>		

Question 77 :

Find the next term in the series. 11P K16, 9RI18, 7TG20,

Difficulty : Moderate

Average Time : 77 Seconds

Options :

1. 5WE22
2. 5CV 22
3. 5V C22
4. 5V E22

Solution :

The correct answer is **option 4 i.e. 5VE22.**

Understanding	Application
<p>11PK16, 9RI18, 7TG20,</p> <p>The pattern is</p>	<p>Hence, 5VE22 is the right answer.</p>

Question 78 :

Read the given statement(s) and conclusions carefully. Assuming that the information in the statements is true, even if they appear to be in variance with commonly known facts, select which of the conclusions logically follow(s) from the statement(s) beyond a reasonable doubt. Statements: All caps are cups. All bowls are cups Conclusions: (I) Some bowls

are caps (II) No bowl is cap

Difficulty : Moderate

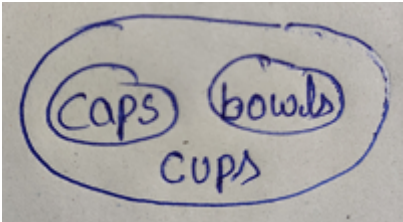
Average Time : 67 Seconds

Options :

1. Neither I nor II follows
2. Either I or II follows
3. Only II follows
4. Only I follows

Solution :

The correct answer is **option 2 i.e. Either I or II follows.**

Understanding	Application
	<p>Conclusions:</p> <p>(I) Some bowls are caps = False</p> <p>(II) No bowl is a cap = False</p> <p>Both conclusion are false and both have same elements. Hence, Either I or II follows.</p>

Question 79 :

You are given a question and two statements. Identify which of the statements is/are sufficient to answer the question.
 Question: Meenu has 5 boards of 3 different shapes — square, rectangular and circular. How many circular boards does she have?
 Statements: 1. There are 3 square boards. 2. The number of rectangular boards is one-third of the number of square boards.

Difficulty : Moderate

Average Time : 73 Seconds

Options :

Statements 1 and 2 together are sufficient.

2. Statement 1 alone is sufficient.
3. Statement 2 alone is sufficient.
4. Statements 1 and 2 together are not sufficient.

Solution :

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

Understanding	Application
<p>Meenu has 5 boards of 3 different shapes — square, rectangular, and circular.</p> <p>Total Boards = 5</p> <p>Statement 1-: There are 3 square boards.</p> <p>From statement 2-: The number of rectangular boards is one-third of the number of square boards.</p> <p>Then,</p> <p>Square boards = 3</p> <p>Rectangular Board = $3 \times \frac{1}{3} = 1$</p> <p>Circular = $5 - 4 = 1$</p>	<p>Hence, Circular boards = $5 - 4 = 1$ board.</p>

Question 80 :

Consider the following statements to be true even if they seem to be at variance from commonly known facts and decide which of the conclusions logically follows from the statements. Statement: • All pets are beautiful. • All beautiful is loving. Conclusions: 1. All pets are loving. 2. Some beautiful are pets.


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

Options :

1. No conclusion follows
2. Only conclusion 2 follows
3. All the conclusions follow
4. Only conclusion 1 follows

Solution :

The correct answer is **option 3** i.e. **All the conclusions follow.**

Understanding	Application
	Conclusions: 1. All pets are loving = True 2. Some beautiful are pets = True Hence, All the conclusions follow is the correct answer.

Question 81 :

Select the option that is related to the third term in the same way as the second term is related to the first term. Meghalaya : Shillong :: Assam : ?

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

1. Dispur
2. Orissa
3. Bihar
4. Gangtok

Solution :

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

Understanding	Application	
Meghalaya : Shillong :: Assam : ? Shillong is the capital of Meghalaya.	Similarly, Dispur is the capital of Assam.	

Question 82 :

Select the option that is related to the third term in the same way as the second term is related to the first term. Gentle : Harsh :: Ignore : ?

Difficulty : Moderate

Average Time : 54 Seconds

Options :

- Next
- Never
- Notice
- New

Solution :

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

Understanding
Gentle : Harsh :: Ignore : ? Gentle and Harsh are Antonyms. In the same way, the antonyms of Ignore is Notice. Hence, Ignore is the correct answer.

Question 83 :

Select the appropriate combination of symbols that when sequentially placed in place of the question marks (?) in the



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given equation will correctly complete the equation. $((20 \div 100) \div 4) \div 10 = 10$

Difficulty : Moderate

Average Time : 50 Seconds

Options :

1. \cdot, \times, \div
2. $\cdot, \div, +$
3. $+, \div, \div$
4. $+, \times, \times$

Solution :

The correct answer is **option 2** i.e. $\cdot, \div, +$

Understanding	Application
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To select the appropriate combination of symbols we have to use the BODMAS rule in each Option.

1) , \times , \div

$$((20 - 100) \times 4) \div 10 = 10$$

$$(-80 \times 4) \div 10 = -10$$

$$-320 \div 10 = -10 \text{ (not equal)}$$

2) , \div , +

$$((20 - 100) \div 4) + 10 = 10$$

$$(-80 \div 4) + 10 = -10$$

$$-20 + 10 = -10$$

3) +, \div , \div

$$((20 + 100) \div 4) \div 10 = 10$$

$$(120 \div 4) \div 10 = -10$$

$$30 \div 10 = -10 \text{ (not equal)}$$

4) +, \times , \times

$$((20 + 100) \times 4) \times 10 = 10$$

$$(120 \times 4) \times 10 = -10$$

$$480 \times 10 = -10 \text{ (not equal)}$$

Hence, **option 2** i.e.
, \div , + is the right
answer.

Question 84 :

Read the given statement(s) and conclusions carefully and select which of the conclusions logically follow(s) from the statement(s). Statements: Mr. X humiliated Mr. Y in the office that too in the presence of all other colleagues. Conclusions:

1. Mr. X did not like Mr. Y 2. Mr. X was not popular in the office

Difficulty : Moderate

Average Time : 91 Seconds

Options :

Both 1 and 2 follows

2. Only conclusion 2 follows

3. Neither 1 nor 2 follows

4. Only conclusion 1 follows

Solution :

The correct answer is **option 3 i.e. Neither 1 nor 2 follows.**

Understanding
<p>The statement is Mr. X humiliated Mr. Y in the office that too in the presence of all other colleagues.</p> <p>Conclusions 1--: Mr. X did not like Mr. Y does not follow, because it is not given that Mr. X did not like Mr. Y.</p> <p>Conclusions 2 -: Mr. X was not popular in the office doesn't follow, because it is not given that Mr. X was not popular in the office.</p> <p>Hence, Neither 1 nor 2 follows.</p>

Question 85 :

Choose the mirror image for the following figure considering MN to be the Mirror:

Difficulty : Moderate

Average Time : 67 Seconds

Options :

1. C

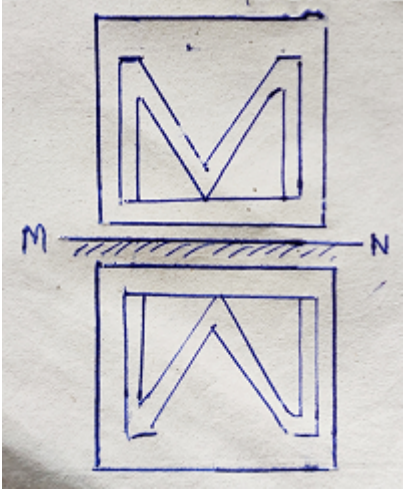
2. B

3. A

4. D

Solution :

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

Understanding	Application
 <p>The above diagram shows the mirror image considering MN to be the Mirror.</p>	<p>Hence, option 2 i.e. B is the correct answer.</p>

Question 86 :

Select the answer figure that will replace the question mark in the question figure series.

Difficulty : Moderate

Average Time : 51 Seconds

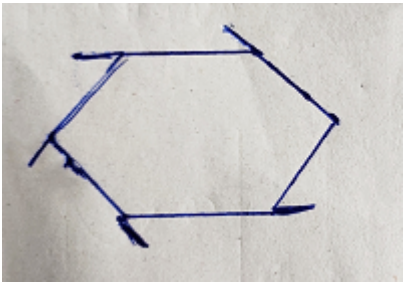
Options :

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

Solution :

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

Understanding	Application
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 <p>The given figure will replace the question mark in the series.</p>	<p>Hence, Figure in option 4 i.e. 3 is the correct answer.</p>
--	--

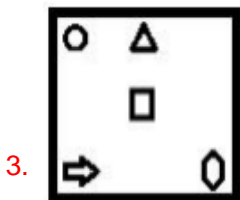
Question 87 :

Find the figure that can replace the question mark in the following analogy.

Difficulty : Moderate

Average Time : 51 Seconds

Options :



4.



Solution :



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

Understanding	Application
	<p>This figure that can replace the question mark in the given analogy.</p>

Question 88 :

Observe the relation between the first pair of words and identify the pair that has the same relationship from the below options Stool : Bench

Difficulty : Moderate

Average Time : 70 Seconds

Options :

1. Carpenter : chair
2. Chair : Table
3. Wood : steel
4. Foot-rule : yardstick

Solution :

The correct answer is **option 4** i.e. **Foot-rule : yardstick**

Understanding	Application
<p>Stool : Bench</p> <p>Stool and bench both are used for sitting.</p>	<p>Similarly,</p> <p>Foot-rule and yardstick, both are used to take measurements.</p> <p>Hence, "Foot-rule : yardstick" is the correct answer.</p>

Question 89 :

Find the minimum number of horizontal and vertical straight lines required to make the given figure.

Difficulty : Moderate

Average Time : 53 Seconds

Options :

1. 14
2. 8
3. 16
4. 17

Solution :

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

Understanding	Application
	<p>From this diagram, we can see that the minimum number of horizontal and vertical straight lines required to make the figure is 8.</p>

Question 90 :

Read the given statement(s) and conclusions carefully and select which of the conclusions logically follow(s) from the statement(s).
 Statements: Some jaguars are cheetahs, Some cheetahs are leopards, Some leopards are panthers
 Conclusions: 1. Some panthers are cheetahs 2. No panther is a cheetah

Difficulty : Moderate

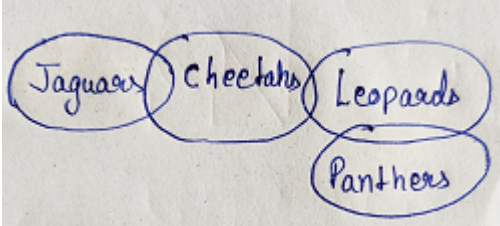
Average Time : 58 Seconds

Options :

1. Only conclusion 1 follows
2. Only conclusion 2 follows
3. Both 1 and 2 follows
4. Either 1 or 2 follows

Solution :

The correct answer is **option 4 i.e. Either 1 or 2 follows**

Understanding	Application
	<p>Conclusions:</p> <p>1. Some panthers are cheetahs = False</p> <p>2. No panther is a cheetah = False</p> <p>If both Conclusions are false and both contain the same element, in this case, either 1 or 2 follows condition applies.</p>

Question 91 :

How many triangles are there in this figure?

Difficulty : Moderate

Average Time : 56 Seconds

Options :

1. 8
2. 14
3. 6
4. 10

Solution :

The correct answer is **option 1 i.e. 8.**

Understanding	Application
	<p>The number of triangles in the given figure is 1, 2, 3, 4, 5, 6, a, b.</p> <p>Hence, 8 is the correct answer.</p>

Question 92 :

Consider the following question and decide which of the statements is sufficient to answer the question. Question: Find the value of the slope of a line. Statements: 1) $y = mx + 2$ 2) Line passes through (2, 1)

Difficulty : Moderate

Average Time : 55 Seconds

Options :

1. Only statement 2 is sufficient
2. Either statement 1 or 2 is sufficient
3. Only statement 1 is sufficient
4. Both statements 1 and 2 are sufficient

Solution :

The correct answer is **option 4 i.e. Both statements 1 and 2 are sufficient.**

Understanding	Application



<p>From statements I</p> $y = mx + 2$ <p>We cannot find anything.</p> <p>From statement II</p> <p>line passes through (2, 1)</p> <p>We cannot find anything from statement II.</p> <p>Combining statement I and II:</p> <ul style="list-style-type: none">• A line passes through (2, 1), it will satisfy the equation of line $y = mx + 2$• Putting $x = 2$ and $y = 1$ $1 = 2m + 2$ $m = -1/2$	<p>Hence, Both statements 1 and 2 are sufficient.</p>
--	---

Question 93 :

How many lines are used to create the below figure?

Difficulty : Moderate

Average Time : 68 Seconds

Options :

1. 21
2. 20
3. 19
4. 18

Solution :

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

Understanding	Application
	<p>The number of straight lines:</p> <p>Vertical Lines:- PS, TV, UW, QR = 4</p> <p>Horizontal Lines:- TU, SR, VW, PQ = 4</p> <p>Small cross Lines:- CT, UD, DN, AM, AV, BW = 6</p> <p>Big cross Lines:- TR, CB, PW, US, QV = 5</p> <p>Total Lines = 19</p> <p>Hence, 19 is the correct answer.</p>

Question 94 :

Find the next term in the following series. A1E5, F6J10,

Difficulty : Moderate

Average Time : 60 Seconds

Options :

1. K11O15
2. M11O15
3. L11O14
4. M12O14

Solution :

The correct answer is **option 1** i.e. **K11O15**.

Understanding	Application
The pattern is	In the same way
$A + 5 = F$	$F + 5 = K$
$1 + 5 = 6$	$6 + 5 = 11$
$E + 5 = J$	$J + 5 = O$
$5 + 5 = 10$	$10 + 5 = 15$
	So, the complete series is A1E5, F6J10, K11O15.

Question 95 :

A parking area has two gates, one on the eastern side which is the entry gate, and another in the western corner which is the Exit gate. If a car enters the parking area through the entrance gate following a straight path and makes a 90° turn to the right and gets a place to park which direction does the car's bonnet face?

Difficulty : Moderate

Average Time : 70 Seconds

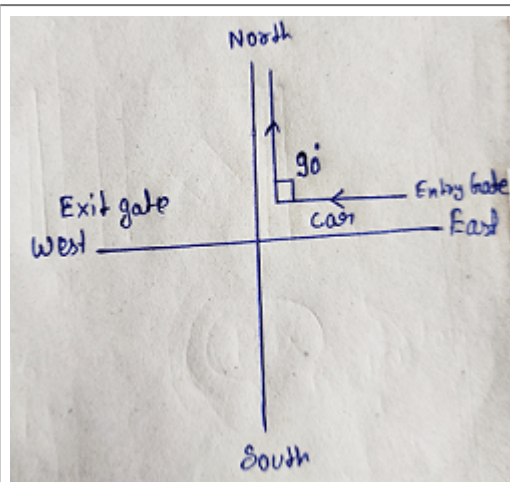
Options :

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

Solution :

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

Understanding



From the above diagram, If a car enters the parking area through the entrance gate following a straight path and makes a 90° turn to the right and gets a place to park which direction does the car's bonnet faces **North**.

Question 96 :

Starting from point O facing West a man walks 4 kilometre reach point A, turns right walks 4 kilometre reach point B, turn right walks 4 kilometre reach point C, turns right walks 3 kilometre reach point D, turns left walks 4 kilometre reach point E, turns right walks 5 kilometre reach point F. At point C, the man is facing direction.

Difficulty : Moderate

Average Time : 67 Seconds

Options :

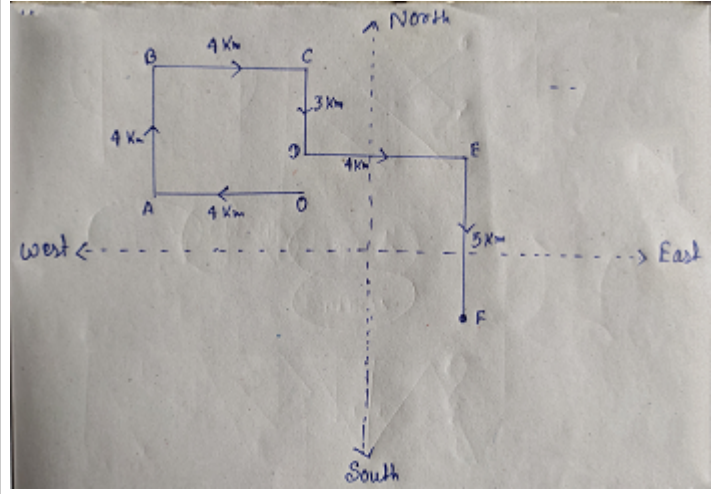
1. East
2. South
3. North
4. West

Solution :

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

Understanding

Application



From the above diagram, we can see that at point C, the man is facing **East**.

Question 97 :

Consider the following statement and decide which of the assumptions is implicit from the statement. Statement: Rajesh's condition will improve after operation. Assumptions: I. Rajesh can be operated upon in this condition. II. Rajesh cannot be operated upon in this condition.

Difficulty : Moderate

Average Time : 59 Seconds

Options :

1. Only assumption II is implicit
2. Neither assumption I nor II is implicit
3. Either assumption I or II is implicit
4. Only assumption I is implicit

Solution :

The correct answer is **option 4** i.e. **Only assumption I is implicit.**

Understanding	Application
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<p>The statement is Rajesh's condition will improve after operation.</p> <p>Assumptions I implicit because in the statement, it is mentioned that Rajesh's condition will be improved after operation</p> <p>Assumptions II does not implicit because it is not given that Rajesh cannot be operated.</p>	<p>Hence, only Assumptions I is implicit.</p>
---	---

Question 98 :

4WXZ8QPOJ6GTMV EUH53B Find the missing term using the above sequence W8, P6,, HB

Difficulty : Moderate

Average Time : 62 Seconds

Options :

1. Q6
2. TE
3. ZO
4. UB

Solution :

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

Understanding	Application
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4WXZ8QPOJ6GTMVEUH53B

- We have to find the missing term in W8, P6,, HB series.
 - There is a gap of two letters between W8, P6, and, HB.
 - There is also 1 letter gap between 8 and P and so on.
- In the same way, there is a gap of two letters between TE.
 - Hence, **TE** is the correct answer.

Question 99 :

Identify the mirror image of the following figure.

Difficulty : Moderate

Average Time : 65 Seconds

Options :

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

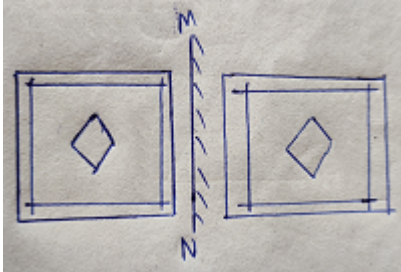
Solution :

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

Understanding

Application

The mirror image of the given picture is



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

Question 100 :

Prakash is the brother of Nilesh. How is Nilesh related to Prakash's only sister's father's wife?

Difficulty : Moderate

Average Time : 51 Seconds

Options :

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

Solution :

Son

Rrb Group D CBT - 1 Previous Year Question Paper Analysis

The analysis of Rrb Group D CBT - 1 Previous Year Question Paper held on 2018-12-17 in the Morning exam is as follows:

1. 99 questions were moderate.
2. The safe score is 77 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 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



1. Try to solve Rrb Group D CBT - 1 Previous Year Question Paper without taking any help from the solutions.
2. Rrb Group D CBT - 1 Previous Year Question Paper require proper usage of concept so firstly read the question thoroughly and then use the right concept.
3. In case you're not able to solve the question in less than 30 seconds in the exam then you should skip the question and move to the next question.

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