



# Rrb Alp CBT - 1 Previous Year Question Paper Overview

Here, you can solve all the questions asked in Rrb Alp CBT - 1 Previous Year Question Paper on 2018-08-09 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 Alp CBT - 1 exam. There are 75 questions in the exam and 60 minutes are provided for the Rrb Alp CBT - 1 exam. The Cutoff of the exam was 40 marks hence you should try to score at least 50 marks.

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

### Question 1 :

The number of symbols that are preceded by a number in the given expression is: R+JM2\$#QR?\*O@7F3

Difficulty : Moderate

Average Time : 44 Seconds

### Options :

1. 4

2. 3

3. 2

4. 1

### Solution :

The correct answer is **option 4** i.e. 1

Given expression:

R+JM2\$#QR?\*O@7F3

Symbol that is preceded by a number: '\$'

Hence, total such symbols = 1

### Question 2 :

A ladder 13 m long reaches a window which is 12 m above the ground on side of a street. Keeping its foot at the same point, the ladder is turned to the other side of the street to reach a window 5m high, then the width of the street is:

Difficulty : Moderate

Average Time : 46 Seconds

Options :

1. 17 m
2. 16 m
3. 14 m
4. 15 m

Solution :

The correct answer is **option 1** i.e. 17 m

Length of Ladder = 13 m

According to given conditions:

YHTLAEH

We need to get the values of X and Y

Applying Pythagoras' theorem:

$$X = (13^2 - 12^2)$$

$$X = (169 - 144)$$

$$X = 25$$

$$X = 5 \text{ m}$$

$$Y = (13^2 - 5^2)$$

$$Y = (169 - 25)$$

$$Y = 144$$

$$Y = 12 \text{ m}$$

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Width of street =  $X + Y = 5 + 12 = 17$  m

**Question 3 :**

A convex mirror of focal length  $f$  (in air) is immersed in a liquid ( $\mu = 4/3$ ). The focal length of the mirror in liquid will be:

Difficulty : Moderate

Average Time : 63 Seconds

**Options :**

1.  $f$
2.  $(4/3)f$
3.  $(3/4)f$
4.  $(7/3)f$

**Solution :**

Correct Answer is **option 1** i.e.  $f$

- Mirrors work on the principle of reflection. The principle of reflection says that the angle of reflection is equal to the angle of incidence made at the surface of mirror.
- Hence the property of reflection is not affected on placing the mirror inside liquid since the focal length of mirror does not change when it is placed inside the liquid.
- So, focal length of a mirror is independent of refractive index of medium. The focal length of the mirror in liquid will be ' $f$ ' only.

**Question 4 :**

Momentum is measured as the product of:

Difficulty : Moderate

Average Time : 54 Seconds

**Options :**

1. Mass and inertia
2. Mass and force
3. Mass and velocity
4. Mass and acceleration

**Solution :**

Correct Answer is **option 3** i.e. **Mass and velocity**

- Momentum is a physics term; it refers to the quantity of motion that an object has.



- If an object is in motion (on the move) then it has momentum.
- It is the product of the mass and velocity of an object.
  - It is a vector quantity, possessing a magnitude and a direction.
  - SI unit: kilogram meter per second (kgm/s)
  - Momentum can be thought of as the "power" when a body is moving, meaning how much force it can have on another body.
  - For example, a bowling ball (large mass) moving very slowly (low velocity) can have the same momentum as a baseball (small mass) that is thrown fast (high velocity).

### Question 5 :

An increase in the price of which of these products will have a ripple effect in increasing the prices of many products, thereby resulting in inflation?

Difficulty : Moderate

Average Time : 71 Seconds

### Options :

1. Petroleum
2. Medicines
3. Smartphones
4. Automobiles

### Solution :

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

- An increase in the price of Petroleum will have a ripple effect in increasing the prices of many products, thereby resulting in inflation.
- Energy is an important part of anything that is produced and distributed and fluctuations in prices will have an impact on the agriculture sector and produce like sugar and cotton, as well.

### Question 6 :

Who is the newly appointed Governor of Tamil Nadu as of February 2018?

Difficulty : Moderate

Average Time : 46 Seconds

### Options :

1. K Rosaiah
2. Banwarilal Purohit
3. Satyapal Malik

**Subramanian Swamy****Solution :**

Correct Answer is **option 2** i.e. **Banwarilal Purohit**

- Banwarilal Purohit is an Indian politician who is the current and 21st Governor of Tamil Nadu.
- Having been appointed as the Governor of Tamil Nadu on 30 September 2017, he assumed office on October 6, 2017.
- He has been three-time Lok Sabha member from Nagpur and Managing Editor of 'The Hitavada', Central India's oldest and English daily for last one hundred years.

**Question 7 :**

Consider the given statements true and decide which of the given conclusions can definitely be drawn from the given statements. Statements: 1. Some fruits are vegetables. 2. Some vegetables are not edible. Conclusions: 1. Some fruits are not edible. 2. Some vegetables are fruits.

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

1. Neither conclusion 1 nor 2 is correct.
2. Conclusion 1 is correct.
3. Conclusion 2 is correct.
4. Both conclusions 1 and 2 are correct.

**Solution :**

Correct answer is **option 3** i.e. **Conclusion 2 is correct.**

**Statements :**

1. Some fruits are vegetables.
2. Some vegetables are not edible.

Following Venn diagram can be prepared:

**YHTLAEH****Conclusions :**

1. Some fruits are not edible: **False (Possible but not certainly true)**
2. Some vegetables are fruits: **True (As Some fruits are vegetables)**

Hence, Conclusion 2 is correct.

**Question 8 :**

Consider the given statement true and decide which of the conclusions logically follow(s) from the information given in the statement. Statement : The population in metro cities is increasing tremendously which leads to the shortage of living space and a drop in living conditions of the people. Conclusions : 1. Government should re-plan city development. 2. Government should demolish illegal buildings and build cottages for people.

Difficulty : Moderate

Average Time : 69 Seconds

**Options :**

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

**Solution :**

Correct answer is **option 3** i.e. **Only conclusion 1 follows.**

**Statement :**

The population in metro cities is increasing tremendously which leads to the shortage of living space and a drop in living conditions of the people.

**Conclusions :**

1. Government should re-plan city development.
2. Government should demolish illegal buildings and build cottages for people.

Demolishing the buildings will lead to other problems so conclusion 2 does not follow.

Planning the city development in proper manner is a solution to accommodate the increasing population of the city.

Hence, conclusion 1 follows.

**Question 9 :**

Which of the following is a Saprotroph?

Difficulty : Moderate

Average Time : 57 Seconds

**Options :**

Mushroom

2. Man
3. Pigeon
4. Algae

**Solution :**

Correct Answer is **option 1** i.e. **Mushroom**.

- Saprotroph, also called saprophyte or saprobe, organism that feeds on nonliving organic matter known as detritus at a microscopic level.
- Mushrooms contain no chlorophyll so they are heterotroph and most are considered saprophytes.
- As they obtain their nutrition from metabolizing non living organic matter.
- Mushroom is a Saprotroph: Mushrooms belong to the kingdom fungi, which are organisms that grow on dead and decaying matter.

**Question 10 :**

ABC%+#DEF& = ?GHI!2\*@ Find the missing term using the above sequence: ABC : @\*2 :: %#E : .....

**Difficulty : Moderate**

**Average Time : 50 Seconds**

**Options :**

1. HH!
2. !HG
3. ?H!
4. !H?

**Solution :**

Correct answer is **option 4** i.e. **!H?**

ABC%+#DEF& = ?GHI!2\*@

First symbol/letter is coded as last symbol/letter.

2nd symbol/letter is coded as 2nd last symbol/letter.

And so on...

ABC : @\*2 :: %#E : .....

A --- @



B --- \*

C ---- 2

Similarly;

% --- !

# --- H

E --- ?

Hence, !H? is the answer.

**Question 11 :**

Who is the author of the book 'The Association of Small Bombs', which is currently shortlisted for the International Dublin Literary Award?

Difficulty : Moderate

Average Time : 52 Seconds

**Options :**

1. Karan Mahajan
2. Chetan Bhagat
3. Namitha Ghokhale
4. Arundhati Roy

**Solution :**

Correct Answer is **option 1** i.e. **Karan Mahajan**

**'The Association of Small Bombs':**

- It is a 2016 novel by Indian-American author and novelist Karan Mahajan.
- The novel is Mahajan's second, after 2012's Family Planning, and was first published in 2016 by Viking Press.
- The novel was named a finalist for the 2016 National Book Award for Fiction.

**International Dublin Literary Award:**

- It is presented each year for a novel written or translated into English.
- It promotes excellence in world literature and is solely sponsored by Dublin City Council, Ireland.
- At €100,000, the award is one of the richest literary prizes in the world.

**Question 12 :**

Nodes of Ranvier are microscopic gaps found within \_\_\_\_\_.





Difficulty : Moderate

Average Time : 62 Seconds

Options :

1. osteoblasts
2. gland cells
3. chondroblasts
4. myelinated axons

Solution :

Correct Answer is **option 4** i.e. **myelinated axons**.

- A myelinated axon is one which is surrounded by a myelin sheath, comprised of Schwann cells.
- It is electrically insulating, except for gaps in the sheath which are called the Nodes of Ranvier.
- This insulation increases the speed of transmission of action potentials.

Question 13 :

Consider the given question and decide which of the following statements is sufficient to answer the question. Is Raju fond of travelling? Statements: 1. Raju has seen East, West, North and Southern parts of India. 2. Raju likes to be in the company of his friends.

Difficulty : Moderate

Average Time : 53 Seconds

Options :

1. Statement 2 alone is sufficient but statement 1 alone is not sufficient to answer the question.
2. Statement 1 alone is sufficient but statement 2 alone is not sufficient to answer the question.
3. Both statements taken together are sufficient to answer the question, but neither statement alone is sufficient.
4. Statements 1 and 2 together are not sufficient, and additional data is needed, to answer the question.

Solution :

Correct answer is **option 2** i.e. **Statement 1 alone is sufficient but statement 2 alone is not sufficient to answer the question.**

Question:

Is Raju fond of travelling?

Statements:

1. Raju has seen East, West, North and Southern parts of India.

2. Raju likes to be in the company of his friends.

**From statement 1:**

Raju must be fond of travelling that is why he explored almost all parts (East, West, North and Southern parts) of India.

**Statement 2** does not signify anything about the travelling habit of Raju.

Hence, Statement 1 alone is sufficient but statement 2 alone is not sufficient to answer the question.

**Question 14 :**

Select the option that is related to the third figure in the same way as the second figure is related to the first figure.

**Difficulty : Moderate**

**Average Time : 78 Seconds**

**Options :**

1. YHTLAEH

2. YHTLAEH

3. YHTLAEH

4. YHTLAEH

**Solution :**

Correct answer is **option 3**

Figure 1: Ring

Figure 2: Fingers

We know that ring is to wear in fingers.

Similarly;

Figure 3: Crown

We know that the Crown is to wear in the Head.

Hence, option 3 is correct which shows picture of a head.

### Question 15 :

Type 1 workers can do three times the work of Type 2 workers. Twelve Type 1 workers can complete a task in 10 days. How many days would it have taken 4 Type 1 and 8 Type 2 workers to complete the same task?

Difficulty : Moderate

Average Time : 67 Seconds

Options :

1. 16
2. 7
3. 20
4. 2

**Solution :**

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

Let the efficiency of type 1 workers and type 2 workers be A and B respectively

Now according to question,

$$A = 3B$$

$$\begin{aligned} \text{Also, 12 Type 1 workers can complete a task in 10 days, thus total work} &= 12A \times 10 \\ &= 120A = 40B \end{aligned}$$

$$\text{Now 4 type 1 workers and 8 type 2 workers} = 4A + 8B = 12A + 8B = 20B$$

$$\text{Time taken by 4 type 1 workers and 8 type 2 workers} = 40B/20B = 2 \text{ days}$$

**Comprehension :**



Directions: The following questions are accompanied by two statements (I) and (II). You have to determine which statements(s) is/are sufficient/necessary to answer the questions.

**Question 16 :**

Consider the given question and decide which of the following statements is sufficient to answer the question. Is  $X - 5$  even?  $X$  is a real number. I.  $X - 15$  is an integer II.  $X - 10$  is an odd integer.

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

1. 1 alone is sufficient while 2 alone is not sufficient to answer the question.
2. Neither 1 nor 2 is sufficient to answer the question.
3. Statement 2 alone is sufficient while statement 1 alone is insufficient
4. Both 1 and 2 are sufficient to answer the question.

**Solution :**

The correct answer is **option 3** i.e. **Statement 2 alone is sufficient while statement 1 alone is insufficient**

Nothing can be interpreted from sentence 1.

From statement 2:

If  $(X - 10)$  is odd, other odd numbers will be  $X - 8, X - 6, X - 4$  and so on.. and  $(X - 5)$  will be even.

Hence, Statement 2 alone is sufficient while statement 1 alone is insufficient.

**Question 17 :**

The SI unit of resistance is:

**Difficulty : Moderate****Average Time : 54 Seconds****Options :**

1. Newton
2. Coulomb
3. Ohm
4. Joule

**Solution :**

Correct Answer is **option 3** i.e. **Ohm**.



Resistance is an electrical quantity that measures how the device or material reduces the electric current flow through it.

- The resistance is measured in units of ohms ( $\Omega$ ). It is SI unit of resistance.
- It is also equal to the voltage across the conductor divided by the current flowing in the conductor i.e.  $V = IR$ .
- Good conductors, such as copper, have low resistance.
- Good insulators, such as rubber, have high resistance.

### Question 18 :

Consider the given question and decide which of the following statements is/are sufficient to answer the question. Between X and Y who is a better dancer? Statements: 1. X had given more dance auditions. 2. Y had given more stage performances.

Difficulty : Moderate

Average Time : 60 Seconds

### Options :

1. Both statement 1 and 2 are sufficient
2. Neither statement 1 nor 2 is sufficient
3. Statement 1 alone is sufficient while statement 2 alone is insufficient
4. Statement 2 alone is sufficient while statement 1 alone is insufficient

### Solution :

Correct answer is **option 3** i.e. **Statement 2 alone is sufficient while statement 1 alone is insufficient.**

**Question :** Between X and Y who is a better dancer?

### Statements :

1. X had given more dance auditions.
2. Y had given more stage performances.

Better dancer will be that person who has given more stage performances not auditions.

Hence, Statement 2 alone is sufficient while statement 1 alone is insufficient.

### Question 19 :

Which of the numbers given below is the square root of 15376?

Difficulty : Moderate

Average Time : 56 Seconds

### Options :



122

2. 124

3. 134

4. 128

**Solution :**

The correct answer is **option 2** i.e. **124**

We need to get the square root of 15376.

Since last digit is 6, last digit of the root will be 4 or 6 only.

We know:

$$120^2 = 14400 \text{ and } 125^2 = 15625$$

14400 15376 15625

Hence, the number will be greater than 120 and less than 125.

So, only possible number = 124

**Question 20 :**

If the difference between the mode and median is 2, then the difference between the median and mean is: (in the given order)

**Difficulty :** Moderate

**Average Time :** 47 Seconds

**Options :**

1. 2

2. 1

3. 3

4. 4

**Solution :**

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

Given :

$$\text{Mode} - \text{Median} = 2$$



Or

$$\text{Mode} = 2 + \text{Median}$$

We know that:

$$\text{Mode} = 3(\text{Median}) - 2(\text{Mean})$$

Now,

Putting [Mode = 2 + Median]:

$$2 + \text{Median} = 3(\text{Median}) - 2(\text{Mean})$$

$$2 + 2(\text{Mean}) = 3(\text{Median}) - \text{Median}$$

$$2 + 2(\text{Mean}) = 2(\text{Median})$$

$$1 + \text{Mean} = \text{Median}$$

So,

$$\text{Median} - \text{Mean} = 1$$

#### Question 21 :

In the morning X and Y are walking towards each other in a park. When they meet each other, Y's shadow falls straight in front of X. In which direction was X facing?

Difficulty : Moderate

Average Time : 51 Seconds

#### Options :

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

#### Solution :

Correct answer is **option 3** i.e. **East**

We know that Sun rises from the east in the morning.

And If we face the sun our shadow falls behind us and vice versa.

Given that : Y's shadow falls straight in front of X.

Hence, sun must be in back side of Y.

So, X is facing the sun i.e. East direction.

**Question 22 :**

Select the related word pair from the following options. Goose : Geese :: .....

Difficulty : Moderate

Average Time : 47 Seconds

**Options :**

1. Jacket : Jacket
2. Shirts : Shirt
3. Pant : Pants
4. Socks : Sock

**Solution :**

Correct answer is **option 3** i.e. **Pant : Pants**

**Goose : Geese**

Logic : Geese is the plural form of Goose.

Similarly,

Pants is the plural form of Pant.

Hence, Pant : Pants is correct

**Question 23 :**

As of February 2018, who owns the Kolkata-based IPL team 'Kolkata Knight Riders'?

Difficulty : Moderate

Average Time : 41 Seconds

**Options :**

1. Sourav Ganguly
2. Shah Rukh Khan
3. Subrata Roy
4. Aamir Khan

**Solution :**



Correct Answer is **option 2** i.e. **Shah Rukh Khan**

- Kolkata Knight Riders are a franchise cricket team representing the city of Kolkata in the Indian Premier League.
- The franchise is owned by Bollywood actor Shah Rukh Khan, actress Juhi Chawla and her spouse Jay Mehta.
- The home of the Knight Riders is the iconic Eden Gardens stadium.

**Question 24 :**

A 4.0 kg object is moving horizontally with a speed of 5.0 m/s. To increase its speed to 10 m/s, the amount of net work required to be done on this object is:

Difficulty : Moderate

Average Time : 52 Seconds

**Options :**

1. 150 J
2. 100 J
3. 50 J
4. 75 J

**Solution :**

Correct Answer is **option 1** i.e. **150 J**.

Since the speed is changing, kinetic energy of the object will change which will be same as the work done.

Given:

Mass of object = 4.0 kg

$V_1 = 5 \text{ m/s}$  and  $V_2 = 10 \text{ m/s}$

Work done = Change in kinetic energy

$$= \frac{1}{2} m V_2^2 - \frac{1}{2} m V_1^2$$

$$= \frac{1}{2} \times 4 \times (10^2 - 5^2)$$

$$= \frac{1}{2} \times 4 \times 75$$

$$= 150 \text{ J}$$

**Question 25 :**

How many triangles are present in the following figure?



Difficulty : Moderate

Average Time : 80 Seconds

Options :

1. 13
2. 10
3. 12
4. 11

Solution :

Correct answer is **option 3** i.e. **12**

Given figure can be drawn as:

YHTLAEH

Triangles in the figure:

ABD, BDE, BCF, BEF, GDH, DEH, HEF, EFI, DFH, HFB, FBD, BDH

Hence, total 12 triangles

Question 26 :

In the following series, one term is missing as shown by the question mark (?). Select the missing term from given options.  
ST, TU, UV, VW, ?

Difficulty : Moderate

Average Time : 45 Seconds

Options :

1. WY
2. WX
3. WZ
4. WV

Solution :

Correct answer is **option 2** i.e. **WX**

The logic which follows is :

ST, TU, UV, VW, ?



First letter is same as 2nd letter of previous term.

2nd letter is the next letter of alphabetical series.

Hence, next term = WX

**Question 27 :**

Name the metal that can be easily cut with a knife.

Difficulty : Moderate

Average Time : 41 Seconds

**Options :**

1. Copper
2. Gold
3. Sodium
4. Aluminium

**Solution :**

Correct Answer is **option 3** i.e. **Sodium**.

- Sodium and Potassium are the two metals which can be cut with a knife.
- The freshly cut surface of these metals is shiny but it tarnishes quickly on contact with air. This is because these metals react with oxygen and water and becomes dull grey in colour.

**Question 28 :**

Who is the Chairman of the Economic Advisory Council to the Prime Minister (PMEAC) as of February 2018?

Difficulty : Moderate

Average Time : 45 Seconds

**Options :**

1. Bibek Debroy
2. Amit Mitra
3. Amartya Sen
4. Najma Heptulla

**Solution :**

Correct Answer is **option 1** i.e. **Bibek Debroy**

**Economic Advisory Council:**



Economic Advisory Council to the Prime Minister is a non-constitutional, non-permanent and independent body constituted to give economic advice to the Government of India, specifically the Prime Minister.

- The council serves to highlight key economic issues facing the country to the government of India from a neutral viewpoint.
- It advises the Prime Minister on economic issues like inflation, microfinance, and industrial output.

**Bibek Debroy:**

- He is an Indian economist, author and a bureaucrat.
- He is currently serving as the Chairman of the Economic Advisory since September 2017.
- From its inception in January 2015, till June 2019, Mr. Debroy was a member of the NITI Aayog, the think tank of Indian Government.
- He was awarded the Padma Shri (the fourth highest civilian honour in India) in 2015.

**Question 29 :**

Consider the given statement and decide which of the given assumptions is/are implicit in the statement. Statement: Honesty is the best policy. Assumptions: (I) Honest people are policy makers. (II) Each policy must contain honesty.

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

1. Both assumptions(I) and(II) are implicit.
2. Neither assumptions(I) and(II) are implicit.
3. Only assumption (II) is implicit.
4. Only assumption (I) is implicit.

**Solution :**

Correct answer is **option 2** i.e. **Neither assumption (I) nor (II) is implicit.**

**Statement :**

Honesty is the best policy.

**Assumptions :**

(I) Honest people are policy makers.

(II) Each policy must contain honesty.

We can't implicit any of the two conclusions from the given statement.

Honest people may be policy makers but it has nothing to do with given statement.



Also, assumption II has nothing to do with given statement

**Question 30 :**

The volume of a sphere and the volume of a right circular cone are equal given that for the cone the radius of the base is same as one-third of its altitude. The ratio of the radius of the cone to the radius of the sphere is:

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

1. 1 : 1
2.  $^3_4 : 1$
3.  $^3_3 : ^3_2$
4.  $^3_4 : ^3_3$

**Solution :**

The correct answer is **option 4** i.e.  $^3_4 : ^3_3$

Right circular cone:

$$R = h/3 \text{ Or } h = 3R$$

$$\text{So Volume} = R^2h/3$$

$$\text{Putting } h = 3R$$

$$V_c = R^3$$

$$\text{Volume of sphere} = 4r^3/3$$

Since volumes of both figures are equal:

$$R^3 = 4r^3/3$$

$$R^3 : r^3 = 4 : 3$$

$$R : r = ^3_4 : ^3_3$$

**Question 31 :**

Which of the following is the last element in Newlands Law of Octaves classification?

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

Rhodium

2. Radium

3. Iron

4. Thorium

**Solution :**

Correct Answer is **option 4** i.e. **Thorium**

- Periodic table is one of the most important parts of the modern chemistry, which helps us to get a knowledge about the chemical properties of the elements present in our planet.
- One of the oldest periodic tables was the "Newland's periodic table" which was established in the late 19th century.
- Law of octave says 'if the chemical elements are arranged according to increasing atomic weight, those with similar physical and chemical properties occur after each interval of seven elements.'
- The 56th and last element of newlands octaves is thorium.

**Question 32 :**

The number of neutrons in an atom is equal to the:

Difficulty : Moderate

Average Time : 57 Seconds

**Options :**

1. Mass number
2. Atomic number
3. Mass number — atomic number
4. Number of electrons

**Solution :**

Correct Answer is **option 3** i.e. **Mass number — atomic number**

- The number of electrons in a neutral atom is equal to the number of protons.
- The mass number of the atom (M) is equal to the sum of the number of protons and neutrons in the nucleus.
- The number of neutrons is equal to the difference between the mass number of the atom (M) and the atomic number (Z).

So, Number of neutrons in an atom = Mass number — atomic number

**Question 33 :**

A swimming pool is filled in 10 hours by three tankers A, B and C. Tanker C is twice as fast as B and B is twice as fast as



A. How much time will tanker A alone take to fill the swimming pool?

Difficulty : Moderate

Average Time : 63 Seconds

Options :

1. 90 hours
2. 40 hours
3. 70 hours
4. 80 hours

Solution :

The correct answer is **option 3** i.e. **70 hours**.

Tanker C is Twice as fast as B and B is twice as fast as A.

Suppose,

Efficiency of A be x units

then efficiency of B will be 2x units

and efficiency of C will be 4x units

Since the swimming pool is filled in 10 hours by all 3 tankers A, B and C with total efficiency =  $x + 2x + 4x = 7x$

Since Time = Work done/Efficiency

$$10 = W/7x$$

$$W = 70x \text{ units}$$

$$\text{Time taken by A alone} = 70x/x = 70 \text{ hours}$$

**Question 34 :**

Consider the given question and decide which of the following statements is sufficient to answer the question. How was the sale of the company ABC? Statements: 1. The company ABC sold 75000 units of soaps each at Rs. 70/- 2. ABC has no other products in the production line.

Difficulty : Moderate

Average Time : 67 Seconds

Options :

1. Both 1 and 2 are sufficient to answer the question.

2 alone is sufficient while 1 alone is not sufficient to answer the question.

3. 1 alone is sufficient while 2 alone is not sufficient to answer the question.

4. Neither 1 nor 2 is sufficient to answer the question.

**Solution :**

Correct Answer is option 1 i.e. Both 1 and 2 are sufficient to answer the question.

Understanding	Application
<p><b>Question:</b></p> <p>How was the sale of the company ABC?</p> <p><b>Statements:</b></p> <p>1. The company ABC sold 75000 units of soaps each at Rs. 70/-.</p> <p>2. ABC has no other products in the production line.</p>	<p>From the sentence 2, we can say that sale of company ABC is dependent on soap only.</p> <p>From statement 1, sale of only product i.e. soap can be analyzed.</p> <p>Hence, Both 1 and 2 are sufficient to answer the question.</p>

**Question 35 :**

A train takes 10 seconds to cross a bridge of length 100 m travelling at 90 kmph. Find the length of the train in metres.

Difficulty : Moderate

Average Time : 141 Seconds

**Options :**

1. 130
2. 120
3. 140
4. 150

**Solution :**

The correct answer is **option 4** i.e. **150**





Understanding	Application
Bridge length = 100 m Speed = 90 kmph Time = 10 sec	Speed = $90 \times \frac{5}{18} = 25$ m/s
Suppose length of train = A mtr	So, $(100 + A)/25 = 10$ $100 + A = 250$ $A = 150$ m So, length of train = 150 m

**Question 36 :**

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

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

1. 1024
2. 2401
3. 4096
4. 2048

**Solution :**

The correct answer is **option 4** i.e. **2048**.

Expressing the following numbers in the form of powers,

$$1024 = 32 = 2^5$$

$$2401 = 49 = 7^4$$

$$4096 = 64 = 8^4$$

$$2048 = 1024 \times 2 = 2^5 \times 2$$

Since 2 is an irrational number hence 2048 will be an irrational number.



Hence, the square root of 2048 will be an irrational number.

**Question 37 :**

Select the Answer Figure that fits in the blank space in the given Problem Figure. (A) (B) (C) (D)

Difficulty : Moderate

Average Time : 54 Seconds

**Options :**

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

**Solution :**

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

In each column or row, there are 3 kinds of shapes: circle with 2/3/4 extra line.

In the similar way,

3rd column and 3rd row has 2 shapes: Circle with 2 & 4 extra lines.

Blank space will have circle with 3 extra lines.

Hence, figure A is correct

**Question 38 :**

Asexual reproduction differs from sexual reproduction is that in asexual reproduction, \_\_\_\_\_.

Difficulty : Moderate

Average Time : 45 Seconds

**Options :**

1. the new organisms are genetically identical to the parent
2. the gametes are produced in reproduction
3. the nuclei of gametes fuse
4. the offspring shows variations

**Solution :**

Correct Answer is **option 1** i.e. **the new organisms are genetically identical to the parent.**

Sexual reproduction just means combining genetic material from two parents.

- Asexual reproduction produces offspring genetically identical to the one parent.
- **Asexual reproduction** involves a single parent. It results in offspring that are genetically identical to each other and to the parent. All prokaryotes and some eukaryotes reproduce this way. There are several different methods of asexual reproduction. They include binary fission, fragmentation, and budding.
- **Sexual reproduction** involves two parents. As you can see from Figure below, in sexual reproduction, parents produce reproductive cells—called gametes—that unite to form an offspring.

### Question 39 :

Who is the MD and CEO of Allahabad Bank as of March 2018?

Difficulty : Moderate

Average Time : 73 Seconds

### Options :

1. Chitra Ramakrishna
2. Shikha Sharma
3. Usha Ananthasubramanian
4. Arundhathi Bhattacharya

### Solution :

Correct Answer is **option 3** i.e. **Usha Ananthasubramanian**.

Allahabad Bank:	<ul style="list-style-type: none"><li>• Allahabad Bank was a nationalised bank with its headquarters in Kolkata, India.</li><li>• As of 31 March 2018, Allahabad Bank had over 3245 branches across India.</li><li>• On 30 August 2019, the Finance Minister Nirmala Sitharaman announced merger of Allahabad Bank with Indian Bank.</li><li>• Current CEO and MD of the bank is S. S. Mallikarjuna Rao.</li><li>• As of March 2018, Usha Ananthasubramanian was the CEO and MD of bank.</li></ul>
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### Question 40 :

The reflector of a search light is a:



Difficulty : Moderate

Average Time : 77 Seconds

Options :

1. convex mirror
2. concave mirror
3. plane mirror
4. cylindrical mirror

Solution :

Correct Answer is **option 2** i.e. **concave mirror**

- A searchlight is an apparatus that combines an extremely bright source with a mirrored parabolic reflector to project a powerful beam of light of approximately parallel rays in a particular direction.
- Concave mirrors are used in search lights and torches so that we have a more focused light beam which will not diverge out and hence help in searching.
- It is used for different light rays falling on it to a single point.

Question 41 :

Who is the author of the speculative fiction book 'Half of What I Say'?

Difficulty : Moderate

Average Time : 54 Seconds

Options :

1. K.R. Meera
2. Anil Menon
3. Shashi Tharoor
4. Namita Gokhale

Solution :

Correct Answer is **option 2** i.e. **Anil Menon**

Half of What I Say:	<ul style="list-style-type: none"><li>• The book “Half of What I Say” has been authored by Anil Menon.</li><li>• It is a story about the place of fiction and truth in the midst of personal, political and social upheaval.</li><li>• Other novels of Anil Menon are Frontiers of Evolutionary Computation, Breaking the Bow.</li></ul>
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**Question 42 :**

Which of the following is not a Triangular number?

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

1. 15

2. 10

3. 5

4. 3

**Solution :**

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

The nth triangular number is the number of dots in the triangular arrangement with n dots on a side, and is equal to the sum of the n natural numbers from 1 to n.

$$T_1 = 1$$

$$T_2 = 1 + 2 = 3$$

$$T_3 = 1 + 2 + 3 = 6$$

$$T_4 = 1 + 2 + 3 + 4 = 10$$

$$T_5 = 1 + 2 + 3 + 4 + 5 = 15$$

Hence, 5 is not a triangular number among the given options.

**Question 43 :**

At 9.5% simple interest per annum a sum of money became Rs. 942 in 6 years. The sum initially invested was:



Difficulty : Moderate

Average Time : 47 Seconds

Options :

1. Rs. 600
2. Rs. 626
3. Rs. 675
4. Rs. 650

Solution :

The correct answer is **option 1** i.e. **Rs. 600**

Given:

$$A = \text{Rs. } 942$$

$$R = 9.5\%$$

$$T = 6$$

We know that:

$$A = P + \frac{PRT}{100}$$

So,

$$A = P(1 + \frac{RT}{100})$$

$$942 = P[1 + \frac{(9.5 \times 6)}{100}]$$

$$942 = P[1 + \frac{(9.5 \times 6)}{100}]$$

$$942 = P[1 + \frac{57}{100}]$$

$$942 = \frac{157P}{100}$$

$$P = 600$$

**Question 44 :**

From the options given, select the rotated version of the following image.

Difficulty : Moderate

Average Time : 44 Seconds

Options :

1. A

D

3. B

4. C

### Solution :

Correct answer is **option 2** i.e. **D**

We need to observe each option closely.

When the given figure will be rotated by 90 degree clockwise it will be similar to the answer figure D.

No other option portray the similar figure as question figure.

### Question 45 :

Consider the given argument and decide which of the given assumptions is/are implicit in the argument. Argument: The campaign of 'Swachh Bharat', keep your cities clean, started by the apartment association didn't bring much response from its residents. Assumptions: 1. Residents do not wish to keep their apartment clean. 2. The association had failed in the campaign.

Difficulty : Moderate

Average Time : 54 Seconds

### Options :

1. Neither 1 nor 2 is implicit.

2. Both 1 and 2 are implicit.

3. Only assumption 1 is implicit.

4. Only assumption 2 is implicit.

### Solution :

Correct answer is **option 4** i.e. **Only assumption 2 is implicit.**

### Argument :

The campaign of 'Swachh Bharat', keep your cities clean, started by the apartment association didn't bring much response from its residents.

### Assumptions :

1. Residents do not wish to keep their apartment clean. **(Nothing such is indicated in the argument hence not implicit.)**

2. The association had failed in the campaign. **(Since the campaign didn't bring much response that means it was**

ineffective and thus the association had failed thus it implicit).

Hence, Only assumption 2 is implicit.

**Question 46 :**

Which of the following acids is present in Red Ants?

Difficulty : Moderate

Average Time : 60 Seconds

**Options :**

1. Malic acid
2. Formic acid
3. Tannic acid
4. Oxalic acid

**Solution :**

Correct Answer is **option 2** i.e. **Formic acid**

- Formic acid is found in many ants but also in stingless bees, and stinging nettles.
- Formic acid, systematically named methanoic acid, is the simplest carboxylic acid, and has the chemical formula  $\text{HCOOH}$ .
- The principal use of formic acid is as a preservative and antibacterial agent in livestock feed.
- When sprayed on fresh hay or other silage, it arrests certain decay processes and causes the feed to retain its nutritive value longer, and so it is widely used to preserve winter feed for cattle.

**Question 47 :**

Umar and Avinash started a partnership with investments of Rs. 10,000 and Rs. 15,000, respectively but due to a financial emergency, the latter had to withdraw his investment after 8 months. In what ratio should the profit of the first twelve months be shared among the duo?

Difficulty : Moderate

Average Time : 82 Seconds

**Options :**





3 : 2

2. 1 : 2

3. 2 : 3

4. 1 : 1

**Solution :**

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

Umar and Avinash Invested Rs. 10000 and Rs. 15,000 respectively.

And

Umar invested for 12 months while Avinash invested for 8 months.

Hence,

Ratio of total investment in 12 months:

$$= (10000 \times 12) : (15000 \times 8)$$

$$= 120 : 120$$

$$= 1 : 1$$

**Question 48 :**

1 kWh = ?

**Difficulty : Moderate**

**Average Time : 39 Seconds**

**Options :**

1.  $3.6 \times 10^5 \text{ J}$

2.  $3.6 \times 10^6 \text{ J}$

3.  $3.6 \times 10^5 \text{ J}$

4.  $3.6 \times 10^6 \text{ J}$

**Solution :**

Correct Answer is **option 2** i.e.  $3.6 \times 10^6 \text{ J}$



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

$$1 \text{ kWh} = 1\text{kW} \times 1\text{h.}$$

- One kilowatt-hour is equal to  $3.6 \times 10^6$  joules.

### Question 49 :

By which legislation were India and Pakistan divided into two independent nations?

Difficulty : Moderate

Average Time : 63 Seconds

### Options :

1. Pakistan Partition Act 1947
2. Indian Independence Act 1947
3. Pakistan Independence Act 1947
4. Indian Partition Act 1947

### Solution :

Correct Answer is **option 2** i.e. **Indian Independence Act 1947**

- It is an Act of the Parliament of the United Kingdom that partitioned British India into the two new independent dominions of India and Pakistan.
- The Act received the royal assent on 18 July 1947 and thus India and Pakistan.
- According to the law: The authority of the British Crown over the princely states ceased and they were free to join either India or Pakistan or remain independent. Both the dominions of India and Pakistan were to have Governor Generals to be appointed by the British King.

### Question 50 :

In the circle below, chord AB is extended to meet the tangent DE at D. If AB = 12 and DE = 8cm, find the length of BD.

Difficulty : Moderate

Average Time : 61 Seconds

### Options :

1. 46 cm
2. 5 cm
3. 4 cm
4. 6 cm

**Solution :**

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

Given:

AB = 12 cm, DE = 8 cm.

Formula to be applied here:

$$DB \times DA = DE^2$$

Suppose DA = x cm

Then, DB = (x - 12) cm

So,

$$x \times (x - 12) = 8^2$$

$$x^2 - 12x - 64 = 0$$

$$(x - 16)(x + 4) = 0$$

$$x = 16$$

So,

$$BD = 16 - 12 = 4 \text{ cm}$$

**Question 51 :**

In Mendeleev's periodic table, the properties of the elements are considered a periodic function of their:

**Difficulty :** Moderate

**Average Time :** 57 Seconds

**Options :**

1. Atomic mass
2. Ionization enthalpy
3. Atomic size
4. Atomic number

**Solution :**

Correct Answer is **option 1** i.e. **Atomic mass**

- In 1869, Mendeleev formulated a law, now known as the periodic law.
- The law is stated as follows: The properties of elements are periodic functions of their atomic masses.



This means, if the elements are arranged in order of increasing atomic masses then those with similar properties are repeated at regular intervals.

- On the basis of the periodic law, Mendeleev presented his classification in the form of a table, now known as Mendeleev's periodic table.

**Question 52 :**

Select the figure that does NOT belong in the following group.

**Difficulty : Moderate****Average Time : 54 Seconds****Options :**

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

**Solution :**

Correct answer is **option 1** i.e. **B**

In the given figures,

Figure A, C and D : Inner shape has more number of side than the outer shape.

But figure B does not follow it.

Hence, Figure B is odd one.

**Question 53 :**

How many atoms are present in a  $(\text{NH}_4)_2\text{SO}_4$  molecule?

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

1. 15
2. 13
3. 12
4. 14

**Solution :**



Correct Answer is **option 1** i.e. **15**

$(\text{NH}_4)_2\text{SO}_4$  molecule

$2\text{N} + 8\text{H} + \text{S} + 4\text{O}$  ---- Total 15 atoms.

**Question 54 :**

Which of the following is true?

**Difficulty : Moderate**

**Average Time : 38 Seconds**

**Options :**

1.  $29/6 = 53/12$
2.  $29/6 > 43/12$
3.  $29/6 < 43/12$
4.  $29/6 = 43/12$

**Solution :**

The correct answer is **option 2** i.e.  $29/6 > 43/12$

We can write:

$$29/6 = 4.834$$

$$53/12 = 4.4167$$

$$43/12 = 3.583$$

Hence,

$$29/6 > 43/12$$

Option 2 is correct.

**Question 55 :**

Three years from now Dharitri's age will be eight years less than twice Eunice's age. The sum of their present ages is 61 years. What is Dharitri's present age?

**Difficulty : Moderate**

**Average Time : 41 Seconds**

**Options :**

1. **41 years**



39 years

3. 36 years

4. 43 years

**Solution :**

The correct answer is **option 2** i.e. **39 years**.

Suppose present age of Dharitri and Eunice are 'a' and 'b' respectively.

So,

$$a + b = 61 \dots\dots\dots (1)$$

And

$$(a + 3) = 2(b + 3) - 8$$

$$a - 2b = -5 \dots\dots\dots (2)$$

Subtracting both equations:

$$3b = 66$$

$$b = 22 \text{ and } a = 39$$

Hence, Dharitri's present age = 39 years

**Question 56 :**

When a number of resistors are connected in series in a circuit, the value of current \_\_\_\_\_.

**Difficulty :** Moderate

**Average Time :** 50 Seconds

**Options :**

1. increases
2. becomes half
3. decreases
4. remains the same

**Solution :**

Correct Answer is **option 4** i.e. **remains the same**.

- When a number of resistors are connected in series in a circuit, the value of current remains the same.





When a number of resistors are connected in parallel in a circuit, the value of current depend upon the resistance of the path and voltage remains same.

- Total resistance in a series circuit is equal to the sum of each individual resistances.
- Total resistance in a parallel circuit is equal to the sum of the inverse of each individual resistances.

### Question 57 :

Plants that do not have a differentiated plant body belong to the group \_\_\_\_\_.

Difficulty : Moderate

Average Time : 55 Seconds

### Options :

1. Bryophyta
2. Phanerogams
3. Thallophyta
4. Pteridophyta

### Solution :

Correct Answer is **option 3** i.e. **Thallophy**

- Thallophyta is a division of the plant kingdom including primitive forms of plant life showing a simple plant body.
- Including unicellular to large algae, fungi, lichens. The first ten phyla are referred to as thallophytes.
- They are simple plants without roots stems or leaves. They are non-embryophyta.

### Question 58 :

Consider the given statement and decide which of the given assumptions is/are implicit in the statement. Statement: Teachers must attend workshop. Assumptions: (I) Workshop updates teachers. (II) Workshops kill time.

Difficulty : Moderate

Average Time : 50 Seconds

### Options :

1. Both assumptions (I) and (II) are implicit.
2. Neither assumption (1) nor (II) is implicit.
3. Only assumption (II) is implicit.
4. Only assumption (I) is implicit.

### Solution :

Correct answer is **option 4** i.e. **Only assumption (I) is implicit.**

**Statement :**

Teachers must attend workshop.

**Assumptions :**

(I) Workshop updates teachers.

(II) Workshops kill time.

Generally workshops are to gain some knowledge and skills if used efficiently.

Hence, statement I is implicit but not statement II.

**Question 59 :**

By which of the following processes are metals of high reactivity extracted from purified molten ore?

**Difficulty : Moderate**

**Average Time : 51 Seconds**

**Options :**

1. Reduction by an appropriate reducing agent
2. Roasting
3. Electrolysis
4. Calcination

**Solution :**

Correct Answer is **option 3** i.e. **Electrolysis**

What is  
Electrolysis?

- In chemistry and manufacturing, electrolysis is a technique that uses a direct electric current to drive an otherwise non-spontaneous chemical reaction.
- Electrolysis is commercially important as a stage in the separation of elements from naturally occurring sources such as ores using an electrolytic cell.



Roasting:	<ul style="list-style-type: none"><li>• Roasting is a process of heating of sulphide ore to a high temperature in presence of air.</li><li>• It is a step of the processing of certain ores.</li></ul>
Calcination:	<ul style="list-style-type: none"><li>• Process of converting an ore into an oxide by heating it strongly.</li><li>• The ore is heated below its melting point either in absence of air or in a limited supply.</li></ul>

**Question 60 :**

In a class, there were 9 boys and some girls. In a test the mean score obtained by the boys was 12 while that obtained by the girls was 14. If the overall average was 13.1, what was the total number of students in the class?

Difficulty : Moderate

Average Time : 127 Seconds

**Options :**

1. 21
2. 20
3. 22
4. 19

**Solution :**

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

Understanding	Application	Calculation
Number of boys = 9 Mean score obtained by the boys was 12.	So, Total score of all boys = 108	$9 \times 12$ 108

Suppose number of girls = x Mean score obtained by the girls was 14.	So, Total score of all girls = 14x	
overall average was 13.1	So, 108 + 14x = 13.1(x + 9) x = 11 So, total number of students in the class = 11 + 9 = 20	108 + 14x = 13.1(x + 9) 108 + 14x = 13.1x + 117.9 0.9x = 9.9 x = 11

**Question 61 :**

Select the option that depicts the correct mirror image of the given word when the mirror is placed horizontally below the word.

**Difficulty : Moderate**

**Average Time : 74 Seconds**

**Options :**

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

**Solution :**

Correct answer is **option 1**

When mirror is placed horizontally below, then each alphabet flips upside down.

HEALTHY  YHTJAEH

Hence, option 1 is the correct mirror image

**Question 62 :**

Seven years from now Virat will be twice as old as Mohinder. Five years ago Mohinder's age was one-year less than  $\frac{2}{5}$  of Virat's age. What is Virat's present age?

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

1. 55 years
2. 51 years
3. 57 years
4. 53 years

**Solution :**

Correct answer is **option 1** i.e. **55 years**

Suppose

Virat's present age =  $x$

Mohinder's present age =  $y$

Seven years from now Virat will be twice as old as Mohinder.

So,

$$(x + 7) = 2(y + 7)$$

$$x - 2y = 7 \dots\dots\dots (1)$$

Five years ago Mohinder's age was one year less than  $\frac{2}{5}$ th of Virat's age

So,

$$(x - 5) \times \frac{2}{5} = (y - 5 + 1)$$

$$2x - 10 = 5y - 20$$

$$5y - 2x = 10 \dots\dots\dots (2)$$



Multiply equation 1 by 2 and adding in equation 2.

$$y = 24$$

$$\text{And } x = 48 + 7 = 55$$

Hence, Virat's present age = 55 years

**Question 63 :**

The ratio of the numbers of blue to red balls in a bag is constant. When there were 44 red balls, the number of blue balls was 36. If the number of blue balls is 54, how many red balls will be in the bag?

**Difficulty : Moderate**

**Average Time : 70 Seconds**

**Options :**

1. 68

2. 62

3. 64

4. 66

**Solution :**

The correct answer is **option 4** i.e. **66**.

When there were 44 red balls, the number of blue balls was 36.

So,

$$\text{Ratio of blue and red balls} = 36 : 44 = 9 : 11$$

When number of blue balls is 54:

$$9 : 11 = 54 : x$$

$$x = 66$$

Hence, red balls = 66

**Question 64 :**

Select the most appropriate term for the following set of items.

**Difficulty : Moderate**

**Average Time : 40 Seconds**

**Options :**



Books

2. Meeting

3. Marriage

4. Celebration

**Solution :**

Correct answer is **option 4** i.e. **Celebration**.

The items are Medal, Trophy and Winners.

All these things call for a Celebration.

Hence, Celebration is the appropriate term.

**Question 65 :**

Who is the current (as of February 2018) President of the Indian Olympic Association?

Difficulty : Moderate

Average Time : 37 Seconds

**Options :**

1. Abhinav Bindra

2. Prannoy Roy

3. Narinder Dhruv Batra

4. Sharad Pawar

**Solution :**

Correct Answer is **option 3** i.e. **Narinder Dhruv Batra**

- The Indian Olympic Association is the body responsible for selecting athletes to represent India at the Olympic Games, Asian Games and other international athletic meets and for managing the Indian teams at these events.
- The Indian Olympic Association is currently governed by a 32-member Executive Council, headed by President, Dr. Narinder Dhruv Batra.
- The election for the Executive Council is held once in every 4 years.
- The last election of the IOA was held on 14th December 2017.

**Question 66 :**

If  $9 \times 6 = 45$ ,  $7 \times 4 = 33$  and  $6 \times 4 = 20$ , then what is the value of  $5 \times 3$ ?

Difficulty : Moderate

Average Time : 55 Seconds

**Options :**

1. 24

2. 16

3. 13

4. 10

**Solution :**

The correct answer is **option 2** i.e. **16**

Logic : Difference of squares of both numbers.

$$9 \times 6 = 45,$$

$$9^2 - 6^2 = 81 - 36 = 45$$

$$7 \times 4 = 33,$$

$$7^2 - 4^2 = 49 - 16 = 33$$

$$6 \times 4 = 20,$$

$$6^2 - 4^2 = 36 - 16 = 20$$

Similarly for  $5 \times 3$  :

$$5^2 - 3^2 = 25 - 9 = 16$$

Hence, 16 is the answer.

**Question 67 :**

Select the most appropriate term for the given set of items.

Difficulty : Moderate

Average Time : 78 Seconds

**Options :**

1. Pictures

2. Technology

3. Fine arts

4. Culture

**Solution :**



Correct answer is **option 2** i.e. **Technology**

The items are TV, Mobile, CD and Camera.

All these items signify the growth in the field of Technology.

Hence, Technology is the appropriate term.

**Question 68 :**

Looking at the portrait of a girl, Sheesha, a girl, said, "Her mother is my grandfather's only daughter who has only one daughter and no sons". How is Sheesha related to the girl in the portrait?

**Difficulty : Moderate**

**Average Time : 46 Seconds**

**Options :**

1. Aunt
2. Sister
3. Sheesha is the girl in the portrait
4. Niece

**Solution :**

Correct answer is **option 3** i.e. **Sheesha is the girl in the portrait**

Looking at the portrait of a girl, Sheesha, a girl, said, "Her mother is my grandfather's only daughter who has only one daughter and no sons".

Since Sheesha's grandfather has only 1 daughter (say 'x') and no son that means x is the mother of Sheesha.

Hence, the girl in the portrait is Sheesha herself.

**Question 69 :**

Tapas, Avi and Rishi shared a cake. Tapas had  $\frac{1}{2}$  of it, Rishi had  $\frac{1}{3}$  of it and Avi had the rest. What was Avi's share of the cake?

**Difficulty : Moderate**

**Average Time : 56 Seconds**

**Options :**

1.  $\frac{3}{5}$
2.  $\frac{2}{6}$
3.  $\frac{3}{6}$

1/6

**Solution :**

The correct answer is **option 4** i.e. **1/6**.

Tapas had  $1/2$  of the cake and Rishi had  $1/3$  of the cake.

Remaining cake =  $1 - 1/2 - 1/3$

=  $1 - 5/6$

=  $1/6$

Hence, Avi had  $1/6$ th share of the cake.

**Question 70 :**

The interest earned on Rs.1,600 at the rate of 5% simple interest per annum for 6 years would be:

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

1. Rs.2,080
2. Rs.450
3. Rs.496
4. Rs.480

**Solution :**

The correct answer is **option 4** i.e. **Rs. 480**

Understanding	Application	Calculation
$P = \text{Rs. } 1600$ $R = 5\%$ $T = 6 \text{ years}$	We know that: $SI = \frac{PRT}{100}$ So, $SI = \text{Rs. } 480$	$SI = (1600 \times 5 \times 6)/100$ $SI = 480$



**Question 71 :**

Which gas is released when water is added to bleaching powder?

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

1. Oxygen
2. Hydrogen
3. Carbon dioxide
4. Chlorine

**Solution :**

Correct Answer is **option 4** i.e. **Chlorine**

- CHLORINE gas is released when Bleaching powder reacts with water.
- The main constituent of bleaching powder is calcium oxochloride ( $\text{CaOCl}_2$ ).
- So when it reacts with water, hydrochloric acid is released and smell which comes if of chlorine.

**Question 72 :**

According to the given Venn diagram, which number represents 'Boys who participate in athletics and also play cricket'?

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

1. 1
2. 2
3. 11
4. 3

**Solution :**

Correct answer is **option 4** i.e. **3**

From the venn diagram:

Boys who participate in athletics and also play cricket = 3

**Question 73 :**

Pir Panjal Railway Tunnel is located in \_\_\_\_\_.

Difficulty : Moderate

Average Time : 32 Seconds

**Options :**

1. Jammu and Kashmir
2. Himachal Pradesh
3. Sikkim
4. Uttarakhand

**Solution :**

Correct Answer is **option 1** i.e. **Jammu and Kashmir**

- The Pir Panjal Railway Tunnel or Banihal railway tunnel is an 11.215 km railway tunnel located in Pir Panjal Range of the middle Himalayas in Jammu and Kashmir.
- It is a part of the Jammu–Baramulla line.
- Pir Panjal Tunnel is the longest railway tunnel in India.

**Question 74 :**

Which of the following number is exactly three times the product of its digits?

Difficulty : Moderate

Average Time : 47 Seconds

**Options :**

1. 24
2. 12
3. 48
4. 36

**Solution :**

The correct answer is **option 1** i.e. **24**

Option 1: 24

$$3 \times (2 \times 4) = 24$$

Option 2: 12



$$3 \times (1 \times 2) = 6$$

Option 3: 48

$$3 \times (4 \times 8) = 96$$

Option 4: 36

$$3 \times (3 \times 6) = 54$$

Hence, 24 is the number.

**Question 75 :**

Negative acceleration is in the opposite direction of:

**Difficulty : Moderate**

**Average Time : 37 Seconds**

**Options :**

1. force
2. distance
3. velocity
4. momentum

**Solution :**

Correct Answer is **option 3** i.e. **velocity**

- Negative acceleration, otherwise known as deceleration, is the phenomenon of some object's velocity decreasing over time at a steady rate.
- When an object is slowing down, the acceleration is in the opposite direction as the velocity.

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

The analysis of Rrb Alp CBT - 1 Previous Year Question Paper held on 2018-08-09 in the Morning exam is as follows:

1. 75 questions were moderate.
2. The safe score is 40 marks.
3. 75 questions were asked from CBT -1 and 75 questions were asked from CBT -1
4. 2 questions should have been skipped if you were short of time.

# Rrb Alp CBT - 1 Previous Year Question Paper Topic Wise Weightage

## CBT -1

1. GK - 74

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



1. Try to solve Rrb Alp CBT - 1 Previous Year Question Paper without taking any help from the solutions.
2. Rrb Alp 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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Exam Eligibility  
Exam Pattern  
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## Further Guidance on Rrb Alp CBT - 1 Previous Year Question Paper

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### About Neetu Mam

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