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 2018-08-13 in the Afternoon exam. The detailed solutions are also provided for every previous year question and some of these questions can be asked again in your Rrb 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 :

A man looks at a portrait and says, “She is my Father-in-law’s only grand-daughter”. How is the girl in the portrait related to this man’s wife?

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

Options :

1. Mother
2. Daughter
3. Niece
4. Sister

Solution :

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

A man looks at a portrait and says, “She is my Father-in-law’s only grand-daughter”.

Father-in-law’s only grand-daughter will be the daughter of the wife (daughter of father-in-law) of the man.

Hence, the girl in the portrait will be daughter of the man’s wife.

Question 2 :

Find the ratio of the areas of a square and a regular hexagon, such that the square is inscribed inside the hexagon and the hexagon is inscribed inside the circle.

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

Options :

1. 4 : 33
2. 1 : 3
3. 33 : 2
4. 2 : 3

Solution :

The correct answer is **option 1** i.e. **4 : 33.**

Suppose radius of circle = r

Here,

Diagonal of square = 2r

So,

Side of square = r2

Side of hexagon = r (as side of hexagon inscribed in a circle is equal to its radius)

Area of square = $(Side)^2$

And

Area of hexagon = $6 \times 3/4\ (Side)^2$

So,

Area of square = $(r2)^2 = 2r^2$

Area of hexagon

$= 6 \times 3/4\ (r)^2$

$= 33/2\ (r)^2$

Hence,

Ratio = 4 : 33

Question 3 :

Peter belongs to Town A and Paul belongs to Town B. They start their journeys towards each other's towns following the

same route at the same time. They meet somewhere on the way and continue with their journeys. After meeting Paul, Peter takes another 13.5 hours to reach his destination while Paul takes another 6 hours to reach Peter's town. If Peter travelled at the speed of 30 km/h, what was Paul's speed in km/h?

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

Options :

1. 42.5
2. 40
3. 45
4. 47.5

Solution :

The correct answer is **option 3** i.e. **45.**

After meeting Paul, Peter takes another 13.5 hours to reach his destination while Paul takes another 6 hours to reach Peter's town.

Here,

T1 = 13.5 and T2 = 6

Speed of Peter = S1 = 30 km/hr

Suppose speed of Paul = x

S1/S2 = (T2/T1)

So,

30/S2 = (6/13.5)

$(S2)^2$ = 900 × 13.5/6

$(S2)^2$ = 150 × 13.5

$(S2)^2$ = 2025

S2 = 45

Hence, speed of Paul = 45 km/hr

Question 4 :

Aqueous solution of copper sulphate _____.

Difficulty : Moderate

Average Time : 51 Seconds

Options :

1. does not affects litmus
2. affects both red and blue litmus
3. turns blue litmus red
4. turns red litmus blue

Solution :

Correct Answer is **option 3** i.e. **turns blue litmus red**

- When copper sulfate dissolves in water it forms aqueous copper ions and aqueous sulfate ions, namely an aqueous solution of a strong acid and a weak base.
- The strong acid (sulfuric) remains fully ionized, whereas the base, copper, is happy to exist in a state of equilibrium with water as $Cu(OH)_2$.
- This imbalance causes the resultant solution to be acidic, and hence the blue litmus paper turns red to demonstrate that acidity.

Question 5 :

What is the HCF of 36, 72 and 126?

Difficulty : Moderate

Average Time : 55 Seconds

Options :

1. 9
2. 36
3. 18
4. 12

Solution :

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

HCF of two or more integers, which are not all zero, is the largest positive integer that divides each of the integers.

For example, the HCF of 8 and 12 is 4.

$36 = 2 \times 2 \times 3 \times 3$

72 = 2 × 2 × 2 × 3 × 3

126 = 2 × 3 × 3 × 7

Hence,

HCF = 2 × 3 × 3 = 18

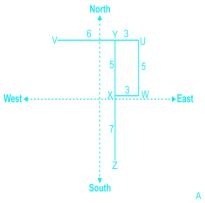
Question 6 :
Choose the correct mirror image of the problem figure when the mirror is held at AB line:

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

Options :

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

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



A **mirror image** (in a plane mirror) is a reflected duplication of an object that appears almost identical but is reversed in the direction perpendicular to the mirror surface.

The dark circle above the figure is exactly at the same position as in answer figure A.

Also, the rest of the answer figure A is the mirror image of the given figure.

Upon observing the figures given in the question and answer, Figure A is the mirror image of the given figure.

Comprehension :
What will come in place of question mark (?) in the following question?

Question 7 :
(8)[36 ÷ {7 (2)}] ÷ (4) {19 (3) × (5)} = ?

Difficulty : Moderate

Average Time : 66 Seconds

Options :

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

Solution :

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

$(-8)[36 \div \{7 - (-2)\}] \div (-4) \{19 - (-3) \times (-5)\}$

$(-8)\ [36 \div \{9\}] \div (-4)\ \{19 - (15)\}$

$(-8)[4] \div (-4)\{4\}$

$-32 \div -16$

2

Question 8 :

Arrange the following in a proper sequence. A. Mutation B. Reproductive isolation C. Natural selection D. Evolution

Difficulty : Moderate

Average Time : 40 Seconds

Options :

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

Solution :

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

Correct sequence is:

A. **Mutation:** A Mutation occurs when a DNA gene is damaged or changed in such a way as to alter the genetic message carried by that gene.

B.**Reproductive isolation:** A collection of evolutionary mechanisms, behaviors and physiological processes critical for speciation.

C. **Natural selection:** A differential survival and reproduction of individuals due to differences in phenotype.

D. **Evolution:** Change in the characteristics of a species over several generations and relies on the process of natural selection.

Question 9 :
Using the following sequence, determine which of the given options does not belong to the group.
RB75E%M3W48Q9#B2A$MS

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

Options :

1. REW
2. 3Q2
3. B%4
4. 4#M

Solution :
Correct answer is **option 4** i.e. **4#M**

RB75E%M3W48Q9#B2A$MS

We need to analyze the position numbers of each term.

Option 1:

R(1) E(5) W(9) ---- Gap of 4

Option 2:

3(8) Q(12) 2(16) ---- Gap of 4

Option 3:

B(2) %(6) 4(10) ---- Gap of 4

Option 4:

4(10) #(14) M(19) ---- **Gap of 4 is not maintained.**

Hence, option 4 is the odd one.

Question 10 :
Who is the Human Resource Development Minister in Prime Minister Modi's cabinet as of February 2018?

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

Options :

1. Suresh Prabhu
2. Prakash Javadekar
3. Jual Oram
4. Maneka Gandhi

Solution :
Correct Answer is **option 2** i.e. **Prakash Javadekar**

- **Prakash Keshav Javadekar** is an Indian politician.
- He is a member of the Bharatiya Janata Party and currently serving as the Minister of Environment, Forest and Climate Change and Minister of Information and Broadcasting.
- As of February 2018, He was the Human Resource Development Minister in Prime Minister Modi's cabinet.
- Currenct Human Resource Development Minister is Ramesh Pokhriyal since 30 May 2019.

Question 11 :
If each term in the given sequence is assigned number 1, 2, 3... according to their position from the left, then the sum of the numerical values of the positions of the symbols will be ..... R+JM2$#QR?*O@7F3

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

Options :

1. 49
2. 51
3. 44
4. 48

Solution :
Correct answer is **option 1** i.e. **49**

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

Each term in the given sequence is assigned number 1, 2, 3... according to their position from the left.

Position numbers for symbols:

+ --- 2

$ --- 6

--- 7

? --- 10

* --- 11

@ --- 13

Hence,

Sum = 2 + 6 + 7 + 10 + 11 + 13

= 49

Question 12 :

Which of the following statements is INCORRECT?

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

Options :

1. The particles of matter have spaces between them.
2. The particles of matter are extremely small.
3. The particles of matter attract each other.
4. The particles of matter are in stationary state.

Solution :

Correct Answer is **option 4** i.e. **The particles of matter are in stationary state.**

The important characteristics of particles of matter are the following:

The particles of matter are very, very small.

The particles of matter have space between them. (For example: When we make tea, coffee, particles of one type of matter get into the spaces between particles of the other. This shows that there is enough space between particles of matter.)

The particles of matter are constantly moving. (For example: When we light an incense stick, we can get the smell sitting at a distance indicating that the particles are continuously moving.)

The particles of matter attract each other. (For example: If we try breaking the stream of water from a tap with our fingers, we are not able to cut the stream and this suggests that particles of matter have force of attraction acting between them.)

Hence, option 4 is not correct.

Question 13 :

The average of three numbers is 6. The average of the first two is 5 while the average of the last two is 8. The three numbers are:

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

Options :

1. 2, 6, 10
2. 3, 7, 8
3. 2, 8, 8
4. 2, 7, 9

Solution :

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

Understanding	Application	Calculation
The average of three numbers is 6. Suppose the numbers are x, y and z.	So, Sum of 3 numbers = 18 x + y + z = 18 …… (1)	6 × 3 18
The average of the first two is 5.	So, x + y = 10 …… (2)	5 × 2 10
The average of the last two is 8	So, y + z = 16 …… (3)	8 × 2 16

From equation 1 and 2:	(x + y + z) – (x + y) = 18 – 10 z = 8	
From equation 1 and 3:	(x + y + z) – (y + z) = 18 – 16 x = 2	
From equation 1,	y = 18 – 8 – 2 = 8	
	Hence, 3 numbers are 2, 8, 8	

Question 14 :

The below figure is embedded in one of the four answer figures. the correct figure containing the above problem figure is:

Difficulty : Moderate **Average Time : 252 Seconds**

Options :

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

Solution :

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

Figure D

In the figure, we can see that the highlighted part is the problem figure only.

That means the problem figure is embedded in the Answer figure D.

Question 15 :

If the velocity of a body becomes two times its initial velocity, its kinetic energy becomes n times its initial kinetic energy.

What is the value of n?

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

Options :

1. 4
2. 6
3. 1/2
4. 3

Solution :

Correct Answer is **option 1** i.e. **4**

We know that:

Kinetic energy of a body = $1/2(mv^2)$

Where, v = velocity of a body, m = mass.

Since Kinetic energy is function of square of the velocity:

Kinetic energy will be 4 times when velocity of the body becomes 2 times.

Hence, n = 4

Question 16 :

Which of the following animals do NOT belong to the class of reptiles?

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

Options :

1. Crocodile
2. Snake
3. Toad
4. Turtle

Solution :

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

- Reptiles are air-breathing vertebrates covered in special skin made up of scales, bony plates, or a combination of

both.

- They include crocodiles, snakes, lizards, turtles, and tortoise.
- All regularly shed the outer layer of their skin.
- Their metabolism depends on the temperature of their environment.

Question 17 :

Two valves P and B can fill a sump in 37 1/2 minutes and 45 minutes respectively. Both valves are opened. The sump will be filled in just 30 minutes, if valve B is turned off after:

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

Options :

1. 6 min
2. 9 min
3. 5 min
4. 10 min

Solution :

The correct answer is **Option 2** i.e. **9 min**

Two valves P and B can fill a sump in 37.5 minutes and 45 minutes respectively.

Suppose,

Capacity of Sump = LCM of 37.5 and 45

= 225 units

So, Efficiency of valve P

225/37.5

6

So, Efficiency of valve B

225/45

5

Both valves are opened and suppose valve B is closed after x minutes.

Sump is filled in just 30 minutes.

Hence,

$30 \times 6 + x \times 5 = 225$

$5x = 225 - 180$

$5x = 45$

$x = 9$

Hence,

Valve B is turned off after 9 minutes.

Question 18 :
How many times in a week does both the hands of the clock will coincide with each other?

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

Options :

1. 84
2. 160
3. 56
4. 154

Solution :
Correct answer is **option 4** i.e. **154**

Both the hands of the clock coincide 11 times in every 12 hours (Since between 11 and 1, they coincide only once, i.e., at 12 o'clock).

The hands overlap about every 65 minutes, not every 60 minutes.

Hence, the hands coincide 22 times in a day.

So, they will coincide 154 (= 22 × 7) times in a week.

Question 19 :
An incident ray strikes a plane mirror at an angle of 20° with the mirror. The angle between the incident ray and reflected ray is _____.

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

Options :

140°

2. 40°
3. 50°
4. 20°

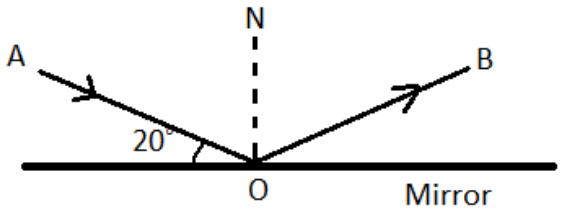
Solution :

Correct Answer is **option 1** i.e. **140°**

An incident ray strikes a plane mirror at an angle of 20° with the mirror.

Hence,

Incident angle = 20°



Here, AO is the incident ray which strikes the mirror at an angle of 20°. OB is the reflected ray.

ON is the normal, perpendicular to the mirror.

Hence, AON = 90 – 20 = 70°

And

BON = AON = 70°

Hence,

Angle between the incident ray and reflected ray = 70 + 70 = 140°

Question 20 :

Choose the correct figure that replaces the question mark.

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

Options :

1. 4
2. 3

2

4. 1

Solution :
Correct answer is **option 2** i.e. **3**

In the given problem figures:

Internal shapes are divided into 4 equal parts by 2 straight lines.

And there are four lines also outside the internal shape which are not overlapping the internal lines.

In the similar manner, answer figure 3 also has a square inside it which is divided into 4 equal parts by 2 straight lines. And There are four lines also outside the square which are not overlapping the internal lines.

Hence, Answer figure 3 will be the next figure in the sequence.

Question 21 :
Who is the CEO of the Unique Identification Authority of India (UIDAI) as of February 2018?

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

Options :

1. Ajay Bhushan Pandey
2. Anil Dhasmana
3. Nandan Nilekani
4. Ajit Doval

Solution :
Correct Answer is **option 1** i.e. **Ajay Bhushan Pandey**

Unique Identification Authority of India (UIDAI):

- It is a statutory authority and a government department, established on 12 July 2016 by the Government of India under the jurisdiction of the Ministry of Electronics and Information Technology, following the provisions of the Aadhaar Act 2016.
- UIDAI is mandated to issue an easily verifiable 12 digit random number as Unique Identity - Aadhaar to all Residents of India.
- Current CEO: Shri Pankaj Kumar

Ajay Bhushan Pandey:

Ajay Bhushan Pandey is a 1984 batch Indian Administrative Service officer belonging to the Maharashtra cadre.

- He is the current Finance secretary of India.
- He was former and 1st chief executive officer (CEO) of the Unique Identification Authority of India (UIDAI) till 23rd October 2019.

Question 22 :

Select the correct analogous pair from the given alternatives. Bible : Quran

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

Options :

1. God : Man
2. Apple : Orange
3. Worship : Place
4. Temple : Pray

Solution :

Correct answer is **option 2** i.e. **Apple : Orange.**

Bible : Quran

Bible and Quran are two different **religious books** that belong to Christian and Muslim community respectively.

Similarly, apple and Orange are two different **type of Fruits.**

Hence, Apple : Orange is the correct answer.

Question 23 :

If 3x2 ax + 6 = ax2 + 2x + 2 has only one (repeated) solution, then the positive integral solution of a is:

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

Options :

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

Solution :

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

Only one or repeated solution of a quadratic equation means both the roots are equal that is the equation is a form of perfect square.

So,

$3x^2$ ax + 6 = ax^2 + 2x + 2

$(3 – a)x^2 – (a + 2)x + 4 = 0$

Now, we can check each option: which value of a will give an equation that is in the form of perfect square.

Option 3:

$(3 – a)x^2 – (a + 2)x + 4 = 0$

Putting a = 2;

$x^2 – 4x + 4 = 0$

$(x – 2)^2 = 0$

It will give only 1 root i.e. 2.

Hence, a = 2 is the correct answer.

Question 24 :
Atomic numbers of four elements are as follows: F(9), P(15), Cl(17), Ar(18). Which of the following two elements would be chemically similar?

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

Options :

1. F and Ar
2. Cl and P
3. F and P
4. F and Cl

Solution :
Correct Answer is **option 4** i.e. **F and Cl**

We need to find the number of valance electrons in given elements:

Valence electrons are those electrons that reside in the outermost shell surrounding an atomic nucleus.

F(9) --- 2, 7

P(15) --- 2, 8, 5

Cl(17) --- 2, 8, 7

Ar(18) --- 2, 8, 8

We can see here that F and Cl both have 7 electrons in their outermost shell.

Elements with same number of valance electrons in outermost shell are group together and they are chemically similar.

Hence, F and Cl would be chemically similar.

Question 25 :

Read the given information and decide the appropriate course of action. NEET examination has laid the following conditions to qualify for appearance in the NEET Exam: 1. Candidate should pass Grade 12 with a minimum of 50% marks in Biology, Physics and Chemistry group. 2. Candidate should have completed 17 years as on 31-03-2018. 3. Candidate should have opted for Biology, Physics and Chemistry in Grade 12. Candidate 1: Ram's date of birth is 14-05-2001, with 40% marks in Mathematics, Physics, Chemistry and Biology. Candidate 2: Sham's date of birth is 16-08-2000, with 60% marks in Biology, Physics and Chemistry. Who is eligible to write the NEET Exam?

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

Options :

1. Both candidate 1 and 2 are eligible.
2. Neither candidate 1 nor 2 is eligible.
3. Only candidate 1 is eligible.
4. Only candidate 2 is eligible.

Solution :

Correct answer is **option 4** i.e. **Only candidate 2 is eligible.**

Given criteria:

1. Candidate should pass Grade 12 with a minimum of 50% marks in Biology, Physics and Chemistry group.

2. Candidate should have completed 17 years as on 31-03-2018.

3. Candidate should have opted for Biology, Physics and Chemistry in Grade 12.

Candidate 1: Ram's date of birth is 14-05-2001, with 40% marks in Mathematics, Physics, Chemistry and Biology. **(Ram's age is less than 17 as on 31-03-2018. He opted given subjects but got less than 50% marks. Hence, Ram is not**

eligible)

Candidate 2: Sham's date of birth is 16-08-2000, with 60% marks in Biology, Physics and Chemistry. **(Shyam's age is more than 17 as on 31-03-2018 & he opted given subjects only and got more than 50% marks also. Hence, Shyam is eligible)**

Question 26 :

From the top of a platform 5 m high, the angle of elevation of a tower was 30°. If the platform was positioned 403 m away from the tower, how tall was the tower?

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

Options :

1. 40 m
2. 203 m
3. 303 m
4. 45 m

Solution :

The correct answer is option 4 i.e. 45 m.

Platform DE = 5 m

Distance between platform and tower AB = CD = 403 m

We can represent it as:

From the figure:

tan30 = AC/CD

1/3 = AC/403

AC = 40

Tower AB = AC + CB

CB = DE = 5 m

So,

Length of tower = 40 + 5 = 45 m

Question 27 :

The weight of a boy on the surface of the moon is 300 N. The weight of the same boy on the surface of the earth will be:

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

Options :

1. 300 N
2. 50 N
3. 1800 N
4. 5 N

Solution :

Correct Answer is **option 3** i.e. **1800 N**

- The acceleration due to gravity on the surface of the Moon is about 1.625 m/s, about 16.6% that on Earth's surface or g/6.
- Hence, weight at the surface of moon that is (= mg) will also be $1/6^{th}$ of the weight at earth.

Hence, weight of the boy on the surface of the earth will be = 6 × 300 = 1800 N

Question 28 :

If the zeroes of the polynomial x2 - ax + b are 3 and 4, then ‘a’ and ‘b’ are respectively equal to:

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

Options :

1. 4, 3
2. 12, 7
3. 3, 4
4. 7, 12

Solution :

The correct answer is**option 4** i.e. **7, 12.**

The zeroes of the polynomial $x^2 - ax + b$ are 3 and 4.

That means 3 & 4 are the roots of the equation.

Putting x = 3 in the equation:

9 – 3a + b = 0

3a – b = 9 ……. (1)

Putting x = 4 in the equation:

16 – 4a + b = 0

4a – b = 16 ……. (2)

Solving the equations:

a = 7 & b = 12

Question 29 :
In the Modern Periodic Table, elements are arranged in:

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

Options :

1. increasing atomic mass number
2. increasing atomic number
3. decreasing atomic mass number
4. decreasing atomic number

Solution :
Correct Answer is **option 2** i.e. **increasing atomic number**

- The modern periodic table is used to organize all the known elements.
- Elements are arranged in the table by increasing atomic number.
- In the modern periodic table, each element is represented by its chemical symbol.
- The number above each symbol is its atomic number.
- Modern Periodic Table was developed by a scientist named Henry Moseley.

Question 30 :
Which of the following metals is the most Malleable?

Difficulty : Moderate

Average Time : 50 Seconds

Options :

1. Al
2. Zn
3. Na
4. Ag

Solution :

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

- If some metal is malleable then it means it can be hammered or pressed into required shape without breaking or cracking.
- Examples of malleable metals are gold, iron, aluminum, copper, silver, and lead. Gold and silver are highly malleable.
- Gold most malleable metal in periodic table. Its one-gram mass can be made into a sheet of a 1-meter square.

Among the options, Silver (Ag) is the most malleable.

Question 31 :

Select the missing figure based on the given related pair of figures.

Difficulty : Moderate

Average Time : 51 Seconds

Options :

1. 
2. 

4. 

Solution :

Correct answer is **option 3**

1st figure is picture of a well and 2nd figure is picture of water filled glass.

Here, we know that water is drawn out from the well.

3rd figure is a picture of mine.

We know that we extract/draw coal from the mine.

Among the options, answer figure 3 displays the picture of coal. Hence, it will be the correct answer.

Question 32 :

If sec + tan = 4, then sec tan = ?

Difficulty : Moderate | **Average Time : 70 Seconds**

Options :

1. 1
2. 0.25
3. 0.5
4. 0.75

Solution :

The correct answer is **option 2** i.e. **0.25**

We know that:

$\sec^2 - \tan^2 = 1$

From the formula:

(sec + tan)(sec – tan) = 1

Given:

sec + tan = 4

So,

4 × (sec – tan) = 1

sec – tan = 1/4 = 0.25

Question 33 :

Which Indian actor won the Ordre des Arts et des Lettres (Order of Arts and Letters) from the French Government in 2016?

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

Options :

1. Nana Patekar
2. Amitabh Bachchan
3. Anupam Kher
4. Kamal Hassan

Solution :

Correct Answer is **option 4** i.e. **Kamal Hassan**

Ordre des Arts et des Lettres (Order of Arts and Letters):

- It is an Order of France established on 2 May 1957 by the Minister of Culture.
- Its purpose is the recognition of significant contributions to the arts, literature, or the propagation of these fields.
- Actor Kamal Haasan has been chosen for the famous French honor of Chevalier Award.
- Kamal Haasan has been appointed Chevalier de l'Ordre des Arts et Lettres (Knight in the National Order Arts and Letters) by the Minister of Culture and Communication, France.

Question 34 :

Which of the following is NOT a radioactive element?

Difficulty : Moderate

Average Time : 56 Seconds

Options :

1. Uranium
2. Plutonium
3. Titanium
4. Thorium

Solution :

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

- Radioactive elements are unstable isotopes that release subatomic particles or energy as they decay.
- Radioactivity is the property possessed by some elements (such as uranium) or isotopes (such as carbon 14) of spontaneously emitting energetic particles (such as electrons or alpha particles) by the disintegration of their atomic nuclei.
- Some of the most commonly known radioactive elements are uranium, radium, thorium, plutonium and radon.

Among the options, Titanium is not a radioactive element.

Question 35 :

Who has been appointed as the Chairman of the State Bank of India (SBI) after Arundhati Bhattacharya retired?

Difficulty : Moderate

Average Time : 53 Seconds

Options :

1. Rana Kapoor
2. Kishor Kharat
3. Rajnish Kumar
4. K Venkataraman

Solution :

Correct Answer is **option 3** i.e. **Rajnish Kumar**

Rajnish Kumar:

- He is Chairman of the State Bank of India.
- He joined SBI as a Probationary officer in 1980.
- He has served as Managing Director, a position he was given on 2 November 2015.

He succeeded Arundhati Bhattacharya on 7 October 2017.

State Bank of India:

- The State Bank of India is an Indian multinational, public sector banking and financial services statutory body.
- It is a government corporation statutory body headquartered in Mumbai, Maharashtra.

Question 36 :
Find the reciprocal of 2(3/5).

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

Options :

1. 2(3/5)
2. 5(3/2)
3. 5/13
4. 3(3/5)

Solution :
The correct answer is **Option 3** i.e. **5/13**

2(3/5) = 13/5

Reciprocal for a number x is denoted by 1/x.

Hence, the reciprocal of given number

= 1/(13/5)

= 5/13

Question 37 :
The initial ratio of sugar to flour in a dough was 2 : 7. To 9 kg of the dough, John added more sugar to make the sugar to flour ratio 2 : 5. Find the sugar later added by John.

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

Options :

1. 800 g
2. 1.2 kg
3. 750 g

1 kg

Solution :
The correct answer is **option 1** i.e. **800 g.**

Quantity of mixture dough = 9 kg

Initial ratio of sugar to flour = 2 : 7

Hence,

Initial quantity of Sugar = 9 × 2/9 = 2 kg

Initial quantity of flour = 9 × 7/9 = 7 kg

Suppose John added x kg more sugar to make the sugar to flour ratio 2 : 5

So,

(2 + x)/7 = 2/5

10 + 5x = 14

5x = 4

x = 0.8

Hence, John added 0.8 kg or 800 g more sugar.

Question 38 :
City U is 9 km towards the east of City V. City W is 5 km towards the south of City U. City X is 3 km towards the west of City W. City Y is 5 km towards the north of City X. City Z is 7 km towards the south of City X. Which of the cities lie on a straight line?

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

Options :

1. XYZ
2. UVW
3. YWU
4. UXZ

Solution :

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

City U is 9 km towards the east of City V.

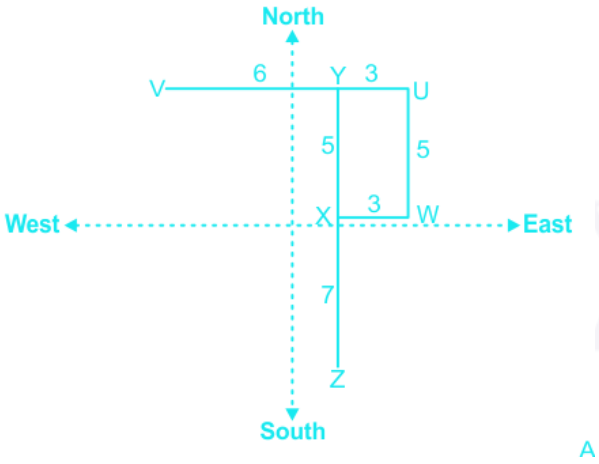
City W is 5 km towards the south of City U.

City X is 3 km towards the west of City W.

City Y is 5 km towards the north of City X.

City Z is 7 km towards the south of City X.

We can prepare the following diagram:



Hence, cities X, Y & Z lie in the straight line.

Question 39 :
Syngamy is defined as:

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

Options :

1. the fission of one egg
2. the fusion of one of the sperms with the synergid
3. the fission of one sperm
4. the fusion of one of the spermswith the egg

Solution :
Correct Answer is **option 4** i.e. **the fusion of one of the sperms with the egg**

Syngamy is the process in which the sperm of the male combines with the egg in the female resulting in the formation of a zygote.

- It is also called fertilization.
- This cycle of fertilisation and development of new individuals is called sexual reproduction.

Question 40 :

Who took over as the new CEO of IT giant Infosys at the beginning of 2018?

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

Options :

1. Raghuram Rajan
2. Vishal Sikka
3. Rohan Murthy
4. Salil Parekh

Solution :

Correct Answer is **option 4** i.e. **Salil Parekh**

Salil Parekh:

- Salil Parekh is the current chief executive officer and managing director of Infosys.
- Parekh took over from interim CEO U B Pravin Rao on January 2, 2018.
- Prior to this appointment Parekh was previously member of the group management board at Capgemini.

Infosys:

- Infosys Limited, is an Indian multinational corporation that provides business consulting, information technology and outsourcing services.
- Headquarters: Bangalore, Karnataka.
- Infosys is the second-largest Indian IT company after Tata Consultancy Services by 2017 revenue.

Question 41 :

A sound wave has a frequency of 4 kHz and a wavelength of 40 cm. The time taken by the sound wave to travel a distance of 3.2 km is:

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

Options :

1. 0.5 s

2.0 s

3. 4.0 s
4. 1.0 s

Solution :

Correct Answer is **option 2** i.e. **2.0 s**

A sound wave has a frequency of 4 kHz and a wave length of 40 cm.

n = 4 kHz = 4000 Hz

And = 40 cm = 40/100 = 0.4 m

We know,

Velocity v = n

So,

v = 4000 × 0.4 = 1600 m/sec

Now,

Distance = 3.2 km = 3200 m

Hence,

Time taken by the sound wave to travel a distance of 3.2 km = 3200/1600 = 2.0 sec

Question 42 :

His greatest achievement in the field of religious reform was the setting up of the Brahmo Sabha and the Brahmo Samaj. Who is he?

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

Options :

1. Dr. Bhimrao Ramji Ambedkar
2. Swami Vivekananda
3. Swami Dayananda Saraswati
4. Raja Ram Mohan Roy

Solution :

Correct Answer is**option 4** i.e. **Raja Ram Mohan Roy**

- Raja Ram Mohan Roy was one of the founders of the Brahmo Sabha, the precursor of the Brahmo Samaj, a social-religious reform movement in the Indian subcontinent.
- He was given the title of Raja by Akbar II, the Mughal emperor.
- He was known for his efforts to abolish the practices of sati and child marriage.
- Raja Ram Mohan Roy is considered to be the "**Father of the Indian Renaissance**" by many historians.

Question 43 :
Which of the following instruments is used to measure electric current?

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

Options :

1. Rheostat
2. Voltmeter
3. Ammeter
4. Galvanometer

Solution :
Correct Answer is **option 3** i.e. **Ammeter**

- An ammeter is a measuring instrument used to measure the current in a circuit.
- Electric currents are measured in amperes, hence the name.
- An ammeter must be connected in series with the path of the current being measured.
- Setting the ammeter up in parallel will create a short circuit and will not measure the current correctly.

Question 44 :
What is the action of dry HCI gas on dry litmus paper?

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

Options :

1. Blue litmus paper turns white.
2. Blue or red litmus paper does not change its colour.
3. Blue litmus paper turns red.

Red litmus paper turns blue.

Solution :

Correct Answer is **option 2** i.e. **Blue or red litmus paper does not change its colour.**

- Acids dissociate to give ions only in the aqueous solution.
- Dry HCl does not dissociate to give H+ ions as this HCl is not in aqueous form nor litmus paper is wet.

So, the colour of litmus paper does not change.

HCl is Hydrochloric Acid, so blue litmus will turn red if HCl is in aqueous form or litmus paper is wet.

Question 45 :

The product of two numbers is 0.324. One of the numbers is 1.2. What is the other number?

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

Options :

1. 2.7
2. 0.27
3. 0.027
4. 27

Solution :

The correct answer is **option 2** i.e. **0.27**

The product of two numbers is 0.324.

A × B = 0.324

And

A = 1.2

So,

1.2 × B = 0.324

B = 0.324/1.2

B = 0.27

Hence, 2nd number = 0.27

Question 46 :

Kolleru Lake, located in the southern state of Andhra Pradesh, is located at the delta of two rivers. Which are the rivers?

Difficulty : Moderate **Average Time : 42 Seconds**

Options :

1. Krishna and Cauvery
2. Tungabhadra and Chitravathi
3. Godavari and Mahanadi
4. Godavari and Krishna

Solution :

Correct Answer is **option 4** i.e. **Godavari and Krishna**

- Kolleru Lake is one of the largest freshwater lakes in India located in state of Andhra Pradesh and forms the largest shallow freshwater lake in Asia.
- Kolleru is located between Krishna and Godavari deltas.
- Kolleru is one of the most important wetlands of India. The lake supports 200 species of birds, including the critically endangered Spoon-billed Sandpiper.
- The lake serves as a foraging ground for resident as well as migratory birds.

Question 47 :

The number of neutrons present in a nitrogen atom is _____.

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

Options :

1. 14
2. 7
3. 11
4. 5

Solution :

Correct Answer is **option 2** i.e. **7**

Atomic number of Nitrogen = 7

Mass number of Nitrogen = 14

The number of neutrons is equal to the difference between the mass number of the atom (M) and the atomic number (Z).

Hence,

Number of neutrons = 14 – 7 = 7

Question 48 :

What happens to the Potential and Kinetic energies of a body as it falls down from a height?

Difficulty : Moderate **Average Time : 42 Seconds**

Options :

1. Its Potential energy decreases while its Kinetic energy increases.
2. There is no change in its Potential or Kinetic energy.
3. Its Potential and Kinetic energies decrease.
4. Its Potential energy increases while its Kinetic energy decreases.

Solution :

Correct Answer is **option 1** i.e. **Its Potential energy decreases while its Kinetic energy increases**.

Kinetic energy = ½(mv^2)

Potential energy = mgh

Here, m = weight of body, v = velocity

g = acceleration due to gravity and h = height

When a body falls down from a height:

- Velocity increases that means Kinetic energy will increase.
- Height decreases that means Potential energy will decrease.

Question 49 :

What is the minimum number of straight lines required to construct the following figure?

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

Options :

1. 13
2. 11
3. 14

12

Solution :

The correct answer is **option 1** i.e. **13**

We can represent the given figure as: 

Hence, lines: AB, BD, DE, AE, FC, GH, HJ, JI, IG, KN, NM, ML, KL

So, the minimum number of straight lines required to construct the following figure = 13.

Comprehension :

What will come in place of question mark (?) in the following question?

Question 50 :

24 ÷ (20 12 ÷ 3 × 8) = ?

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

Options :

1. -2
2. -3
3. 6
4. 3

Solution :

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

24 ÷ (20 – 12 ÷ 3 × 8)

24 ÷ (20 – 4 × 8)

24 ÷ (20 – 32)

24 ÷ (-12)

-2

Question 51 :

Based on the given data, the percentage of literates in City A is ..... City Population Literate Illiterate % of literates A 200 150 50 B 200 100 66.6 C 150 50 100 D 120 90 25

Difficulty : Moderate

Average Time : 41 Seconds

Options :

1. 65
2. 70
3. 75
4. 80

Solution :

The correct answer is **option 3** i.e. **75.**

From the table:

Population of city A = 200

Literates in city A = 150

Hence,

Percentage of literates in City A

(150/200) × 100

75

Question 52 :

If a sum of Rs. 1000 amounts to Rs. 1331 in 3 years when invested in a scheme, compounded annually, then find the rate of interest per annum.

Difficulty : Moderate

Average Time : 43 Seconds

Options :

1. 15%
2. 30%
3. 10%
4. 20%

Solution :

The correct answer is**option 3** i.e. **10%**

P = Rs. 1000

A = Rs. 1331

T = 3

For CI:

$A = P(1 + R/100)^T$

So,

$1331 = 1000(1 + R/100)^3$

$1331 = 1000(1 + R/100)^3$

$1331/1000 = (1 + R/100)^3$

$(11/10)^3 = (1 + R/100)^3$

R = 10%

Question 53 :

Students are sitting in a row in which the position of X is 17th from the left and that of Y is 14th from the right. If they interchange their positions, X's position becomes 7th from the left. How many students are there in the row?

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

Options :

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

Solution :

Correct answer is **option 2** i.e. **20**

X is 17th from the left and that of Y is 14th from the right.

If they interchange their positions, X's position becomes 7th from the left.

That means Y's original position was**7th from left** and **14th from right.**

Hence, total number of students in row = (7 + 14) – 1 = 20.

Question 54 :
When bullet is fired from a gun, the gun moves in the opposite direction. This illustrates Newton's:

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

Options :

1. third law of motion
2. first and second law of motion
3. first law of motion
4. second law of motion

Solution :
Correct Answer is **option 1** i.e. **third law of motion**

Newton's third law of motion:

- For every action, there is an equal and opposite reaction.
- This means that in every interaction, there is a pair of forces acting on the two interacting objects.
- The size of the forces on the first object equals the size of the force on the second object.
- According to this law, when a bullet is fired from a gun, the bullet moves in forward direction and a jerk is experienced in backward direction.

Question 55 :
Consider the given question and decide which of the following statements is sufficient to answer the question. What is X's rank from the top in a class of 50 students? Statements : 1. Y's rank is 4 ranks below that of X and 30th from the bottom. 2. Z's rank is 2 ranks above that of X and 32nd from the bottom.

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

Options :

1. Either 1 or 2 is sufficient to answer the given question.
2. Both 1 and 2 are sufficient to answer the given question.
3. 1 alone is sufficient while 2 alone is not sufficient to answer the given question.

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

Solution :
The correct answer is **option 1** i.e. **Either 1 or 2 is sufficient to answer the given question.**

Question : What is X's rank from the top in a class of 50 students?

Statements :

1. Y's rank is 4 ranks below that of X and 30th from the bottom.

2. Z's rank is 2 ranks above that of X and 32nd from the bottom.

Statement 1 gives the relation between Y and X's rank. Also, Y's rank from the bottom is shown which could be used to get Y's rank from the top (as the total number of students is 50). Once we get Y's rank, we can also get X's rank.

Similarly, Statement 2 alone could be used for getting X's rank.

Hence, Either 1 or 2 is sufficient to answer the given question.

Question 56 :
11 January 2018 is a Thursday. On which day will 11 June 2019 fall?

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

Options :

1. Tuesday
2. Sunday
3. Wednesday
4. Monday

Solution :
Correct answer is **option 1** i.e. **Tuesday**

11 January 2018 is a Thursday.

Number of days from 11 January 2018 to 31 December 2018 = 365 – 11 = 354

Number of days from 1 January 2019 to 11 June 2019 = 31 + 28 + 31 + 30 + 31 + 11 = 162

Total number of days = 354 + 162 = 516

Now, total number of odd days = Reminder when 516 is divided by 7 = 5

Hence, day on 11 June 2019 will be Thursday + 5 = Tuesday.

Question 57 :

According to the given Venn diagram, the number of boys who are neither athletes nor disciplined is .....:

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

Options :

1. 1
2. 10
3. 9
4. 11

Solution :

Correct answer is **option 3** i.e. **9**

We can highlight the portion about which the question is asked:

From the figure, number of boys who are neither athletes nor disciplined = 9.

Question 58 :

The below figure is embedded in one of the four answer figures. Which of the figures contain the below problem figure?

Difficulty : Moderate **Average Time : 42 Seconds**

Options :

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

Solution :

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

We can represent figure C as:

In the figure, we can see that the highlighted part is the problem figure only.

That means the problem figure is embedded in the **Answer figure C**.

Question 59 :
The most reactive of the following metals is:

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

Options :

1. Al
2. Ca
3. Ni
4. Pb

Solution :
Correct Answer is **option 2** i.e. **Ca**

- Reactivity of a metal depends upon the ease with which its atom can lose the valence electrons present in its outermost shell to other substances.
- If a metal atom can lose its valence electron easily it will react rapidly with other substances and hence it will be a reactive metal.
- A more reactive metal can displace a less reactive metal from its compounds.
- The most reactive metals are found on the left of the periodic table, known as the alkali metals. Their reactivity increases as we go down column

Among the given options, Calcium (Ca) is the most reactive metal.

Comprehension :
What will come in place of question mark (?) in the following question?

Question 60 :
if 19 × 23 = 437, then 190 × 0.023 = ?

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

Options :

1. 43.7
2. 4.37

0.0437

4. 0.437

Solution :

The correct answer is **option 2** i.e. **4.37**

Given:

19 × 23 = 437

Now,

190 × 0.023 can be written as:

= 19 × 23 × 10/1000

= 19 × 23 × 1/100

= 437/100

= 4.37

Question 61 :

The given Problem Figure is embedded in one of the given Answer Figures. Which is that Answer Figure?

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

Options :

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

Solution :

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

We can represent figure B as: 

In the figure, we can see that the highlighted part is the problem figure only (when rotated by 90 degree).

That means the problem figure is embedded in the Answer figure **B**.

Question 62 :

Consider the argument and decide which of the given assumptions is/are implicit. Argument: Use of cell phone is strictly prohibited on the college premises. Assumptions: 1. Students using phones on the college premises will be strictly punished. 2. No student is allowed to use a phone on college premises.

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

Options :

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

Solution :

Correct answer is **option 3** i.e. **Only assumption 2 is implicit**

Argument :

Use of cell phone is strictly prohibited on the college premises.

Assumptions :

1. Students using phones on the college premises will be strictly punished. **(The argument says nothing about the punishment hence, this assumption is not implicit)**

2. No student is allowed to use a phone on college premises. **(The argument clearly says the cell phones are strictly prohibited on the college premises, that means No one can use phone on college premises. Thus, this assumption is implicit)**

Question 63 :

Consider the given statements to be true and decide which of the given conclusions can definitely be drawn from the given statements. Statements : Most lawyers are females. Some females are mothers. Conclusions : 1. Some mothers are females. 2. Some lawyers are mothers.

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

Options :

1. Nether 1 nor 2 follows.
2. Only conclusion 1 follows.

Only conclusion 2 follows.

4. Both 1 and 2 follow.

Solution :
Correct answer is **option 2** i.e. **Only conclusion 1 follows.**

Statements :

Most lawyers are females.

Some females are mothers.

Following Venn diagram can be prepared:

Conclusions :

1. Some mothers are females: **True** (As some females are mothers.)

2. Some lawyers are mothers: **False** (Possible but not definitely true)

Hence, **Only conclusion 1 follows.**

Question 64 :
Select the odd figure out of the following figure series.

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

Options :

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

Solution :
Correct answer is **option 1** i.e. **(d)**

In figures a, b, c and e:

There are 2 parallel lines drawn at one of the corners of the rectangle while a point is placed at opposite corner of the

rectangle.

But figure (d) does not follow it. It has both the parallel lines and point at one corner only.

Hence, figure (d) is the odd one.

Question 65 :
Read the given question and decide which of the following argument(s) is/are strong. Should you work hard till you make your signature into an autograph? Argument 1: Work until you no longer have to introduce yourself. Argument 2: Work hard to become financially secure.

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

Options :

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

Solution :
Correct answer is **option 1** i.e. **Only argument 1 is strong.**

Question :

Should you work hard till you make your signature into an autograph?

Arguments :

1: Work until you no longer have to introduce yourself.

2: Work hard to become financially secure.

When someone asks for your autograph, that means he/she knows you already which means you do not need to introduce yourself.

Hence, Argument 1 is strong in terms of a given question.

Financial security does not necessarily mean that you will reach such a level that your signature will turn into an autograph. Hence, argument 2 is not strong.

Question 66 :
Select the word pair that is analogous to the given word pair. Horse : Pony

Difficulty : Moderate

Average Time : 63 Seconds

Options :

1. Drone : Bee
2. Stag : Doe
3. Son : Daughter
4. Insect : Larva

Solution :

Correct answer is **option 4** i.e. **Insect : Larva**

Horse : Pony

Pony is a small horse.

A pony is typically under the height of 14.2 hands high.

In the similar manner, the active immature form of an insect, especially one that differs greatly from the adult and forms the stage between egg and pupa.

Hence, **Insect : Larva** is the correct answer.

Question 67 :

Consider the given question and decide which of the following statements is sufficient to answer the question. How old was X on 15 January 2017? Statements: 1. X is 50 years older than his brother Y. 2. Y is 20 years younger than this mother.

Difficulty : Moderate

Average Time : 55 Seconds

Options :

1. 2 alone is sufficient while 1 alone is not sufficient to answer the given question.
2. Both I and 2 are sufficient to answer the given question.
3. Neither 1 nor 2 is sufficient to answer the given question.
4. 1 alone is sufficient while 2 alone is not sufficient to answer the given question.

Solution :

Correct answer is **option 3** i.e. **Neither 1 nor 2 is sufficient to answer the given question.**

Question :

How old was X on 15 January 2017?

Statements :

1. X is 50 years older than his brother Y.

2. Y is 20 years younger than his mother.

We can get the age of X from statement 1 if we know the age of Y.

Statement 2 gives the relation between age of Y and his mother, but we can't get the age of Y with that.

Hence, we can't get the age of X from both the statements combined.

Question 68 :
Which Indian player won the Yonex US Open Badminton Tournament in 2017?

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

Options :

1. Srikanth Kidambi
2. HS Prannoy
3. Sameer Varma
4. Ajay Jayaram

Solution :
Correct Answer is **option 2** i.e. **HS Prannoy**

US Open Badminton Tournament:

- It is an annual badminton tournament first held in 1954 when the American Badminton Association.
- In 2016, the tournament was hosted in El Monte, California. In 2017, the tournament was hosted in Anaheim, California.
- H. S. Prannoy won the Yonex US Open Badminton Tournament in 2017.

H. S. Prannoy:

- He is an Indian badminton player and currently trains at the Gopichand Badminton Academy in Hyderabad.
- Kumar originally hails from Thiruvananthapuram and is the Indian number 2 in badminton.

Comprehension :
What will come in place of the question mark(?) in the following number series?

Question 69 :

8, 12, 16, 20, ?

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

Options :

1. 22
2. 26
3. 24
4. 32

Solution :

The correct answer is **option 3** i.e. **24**

Logic:

8 + 4 = 12

12 + 4 = 16

16 + 4 = 20

20 + 4 = 24

Hence, **24** is the answer.

Question 70 :

Plants bend towards light due to the diffusion of the _____ hormone on the other side of the shoot.

Difficulty : Moderate **Average Time : 36 Seconds**

Options :

1. abscisic acid
2. auxin
3. cytokinin
4. gibberellin

Solution :

Correct Answer is **option 2** i.e. **Auxin**

- Auxin is a plant hormone produced in the stem tip that promotes cell elongation.

Auxins play a cardinal role in coordination of many growth and behavioral processes in plant life cycles and are essential for plant body development.

- They are found in shoot and root tips and promote cell division, stem and root growth.
- They can also drastically affect plant orientation by promoting cell division to one side of the plant in response to sunlight and gravity.

Question 71 :

Which actress won the Kerala State Film Award for best actress in her debut film 'Anuraga Karikkin Vellam'?

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

Options :

1. Rajisha Vijayan
2. Parvathy
3. Anna Reshma Rajan
4. Nimisha Sajayan

Solution :

Correct Answer is **option 1** i.e. **Rajisha Vijayan**

- Rajisha Vijayan is an Indian film actress who appears in Malayalam films.
- She made her acting debut in the 2016 film Anuraga Karikkin Vellam.
- She won the Kerala State Film Award for Best Actress for her performance in her debut film.

Question 72 :

38% of 250 is equal to:

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

Options :

1. 95
2. 114
3. 76
4. 104.5

Solution :

The correct answer is**option 1** i.e. **95**

38% of 250

= 250 × 38/100

= 2.5 × 38

= 95

Question 73 :

Consider the given question and decide which of the following statements is sufficient to answer the question. How old is Mrinal? Statements: 1. Mrinal's mother is 20 years older than him. 2. Mrinal's brother is 3 years younger than him.

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

Options :

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

Solution :

Correct answer is **option 3** i.e. **Statements 1 and 2 together are not sufficient, and additional data is needed to answer the question.**

Question :

How old is Mrinal?

Statements :

1. Mrinal's mother is 20 years older than him.

2. Mrinal's brother is 3 years younger than him.

In both the statements, the relation between age of Mrinal and his mother and relation between Mrinal's age and that of his brother are given.

But no direct relation between Mrinal's Mother and Brother is given. Hence, we can't find the age of Mrinal with Statements 1 and 2 together.

Question 74 :

Who among the following is an Indian gymnast who received the prestigious Padma Shri Award in 2017 by the

Government of India?

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

Options :

1. PV Sindhu
2. Sakshi Malik
3. Koneru Hampy
4. Dipa Karmakar

Solution :

Correct Answer is **option 4** i.e. **Dipa Karmakar**

- Dipa Karmakar is an Indian artistic gymnast.
- Karmakar first gained attention when she won a bronze medal at the 2014 Commonwealth Games in Glasgow, becoming the first Indian female gymnast to do so in the history of the Games.
- Karmakar is a recipient of the Padma Shri, the fourth highest civilian award in the Republic of India.
- For her performance in Rio Olympics 2016, the Government of India conferred upon her the Rajiv Gandhi Khel Ratna award in August 2016.

Question 75 :

The interest earned on Rs. 2250 at the rate of 3% simple interest per annum for 2 years will be:

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

Options :

1. Rs. 67.50
2. Rs. 135
3. Rs. 202.50
4. Rs. 225

Solution :

The correct answer is **option 2** i.e. **Rs. 135**

P = Rs. 2250

R = 3%

T = 2

So,

SI = PRT/100

Using formula:

SI = (2250 × 3 × 2)/100

SI = Rs. 135

(2250 × 3 × 2)/100

22.5 × 6

135

Rrb Alp CBT - 1 Previous Year Question Paper Analysis

The analysis of Rrb Alp CBT - 1 Previous Year Question Paper held on 2018-08-13 in the Afternoon 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. 1 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 - 75

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 Results
Exam Cutoff
Exam Eligibility
Exam Pattern

Answer Key
Important Days

Further Guidance on Rrb Alp CBT - 1 Previous Year Question Paper

For Asking any query on Rrb Alp CBT - 1 Previous Year Question Paper please mail Send Email or you can fill the form at KD Live.

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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.