



Question Paper Preview

Notations :

1. Options shown in **green** color and with  icon are correct.
2. Options shown in **red** color and with  icon are incorrect.


Question Paper Name:	RRB Level 1 29th Oct 2018 Shift3
Subject Name:	Level 1
Duration:	90
Total Marks:	100
Display Marks:	No
Share Answer Key With Delivery Engine:	Yes
Actual Answer Key:	Yes
Calculator:	None
Magnifying Glass Required?:	No
Ruler Required?:	No
Eraser Required?:	No
Scratch Pad Required?:	No
Rough Sketch/Notepad Required?:	No
Protractor Required?:	No
Show Watermark on Console?:	No
Highlighter:	No
Auto Save on Console?:	No


Display Number Panel:	Yes
Group All Questions:	No


Question Number : 1 Question Id : 302616601 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Rationalise the denominator of $\frac{1}{(5+\sqrt{3})}$

Options :

1.  $\frac{(5-\sqrt{3})}{20}$

2.  $5 + \frac{\sqrt{3}}{22}$

3.  $\frac{(5-\sqrt{3})}{22}$

4. ✘ $5 - \frac{\sqrt{3}}{20}$

Question Number : 2 Question Id : 302616602 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The maximum number of factors possible for a 2 digit positive integer less than or equal to 29 is:

Options :

1. ✘ 6

2. ✘ 7

3. ✔ 8

4. ✘ 5

Question Number : 3 Question Id : 302616603 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Find out the average of the non-prime numbers from 1 to 20:

Options :

1. ✘ 10.08

2. ✔ 11.08

3. ✘ 12.08

4. ✘ 13.08

Question Number : 4 Question Id : 302616604 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Simplify using BODMAS rule:

$$25 - 2 + [3\{(10-4)^2 - 19 \times 2\}] = ?$$

Options :

1. ✘ 12

2. ✔ 17

3. ✘ 95

4. ✘ 125

Question Number : 5 Question Id : 302616605 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Solve the below equation.

$$2 - 5 + 7 \times 8 + (9 + 11) \div 2 = ?$$

Options :

1. ✓ 63
2. ✗ 60
3. ✗ 46
4. ✗ 83

Question Number : 6 Question Id : 302616606 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

What must be added to 135642 to get the sum as the greatest number of 6 digits?

Options :

1. ✓ 864357
2. ✗ 864350
3. ✗ 864347
4. ✗ 863357

Question Number : 7 Question Id : 302616607 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The dimensions of a rectangular plot of land, given correct to the nearest integer, are 35 m and 25 m. What is the upper bound of the perimeter of the rectangle?

Options :

1. ✗ 120 m
2. ✗ 60 m
3. ✗ 61 m
4. ✓ 122 m

Question Number : 8 Question Id : 302616608 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

What is the HCF of $\frac{3}{5}$, $\frac{9}{10}$ and $\frac{6}{25}$?

Options :

1. ✘ $\frac{3}{5}$

2. ✘ 18

3. ✘ $\frac{18}{50}$

4. ✔ $\frac{3}{50}$

Question Number : 9 Question Id : 302616609 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

After buying a toy for ₹ 65, Prabhu managed to sell it at a profit of 16%. The selling price of the toy was:

Options :

1. ✘ ₹ 75

2. ✔ ₹ 75.40

3. ✘ ₹ 75.75

4. ✘ ₹ 75.60

Question Number : 10 Question Id : 302616610 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

An amount of ₹ 900 is to be distributed among X, Y and Z in the proportion of 4 : 5 : 6 respectively. What will be the difference between X's and Z's amount?

Options :

1. ✘ ₹ 150

2. ✘ ₹ 350

3. ✔ ₹ 120

4. ✘ ₹ 500

Question Number : 11 Question Id : 302616611 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

How much is to be added with each number to make the four numbers: 4, 8, 12, 22, proportional?

Options :

1. ✘ $\frac{3}{4}$

2. ✘ $\frac{5}{6}$

3. ✔ $\frac{4}{3}$

4. ✘ $\frac{8}{3}$

Question Number : 12 Question Id : 302616612 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The difference between the compound interest and simple interest at 5% rate of interest for 2 years is ₹ 2. What is the principal amount?

Options :

1. ✘ ₹ 650

2. ✔ ₹ 800

3. ✘ ₹ 700

4. ✘ ₹ 920

Question Number : 13 Question Id : 302616613 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Prithish has to travel 420 km in 7.5 hours, taking a train that travels at the speed of 60 km/h or a bus that travels at the speed of 40 km/h, or any combination of the two modes of transport. For how long did he travel by bus?

Options :

1. ✘ 1 hour

2. ✔ 1 hour 30 mins

3. ✘ 2 hours

4. ✘ 2 hours 30 mins

Question Number : 14 Question Id : 302616614 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

A can do a piece of work in 10 days while B can do it in 30 days. A works on Day 1, B works on Day 2, and the system continues till work gets over. How many days does it take in all to complete the work?

Options :

1. $14\frac{2}{3}$
2. 15
3. $14\frac{1}{3}$
4. 14

Question Number : 15 Question Id : 302616615 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Pabitra can complete a task in 8 days, Dinu can do it in 10 days and Naba can do it in 12 days. They started working on the task together, but Pabitra left after 2 days and the rest of the task was completed by Dinu and Naba. How long did it take to complete the entire task?

Options :

1. 67/11 days
2. 45/11 days
3. 50/11 days
4. 23/11 days

Question Number : 16 Question Id : 302616616 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The salary of a worker is increased by 25%. By what percentage should the new salary be reduced to restore the original salary?

Options :

1. 12%
2. 10%
3. 20%
4. 15%

Question Number : 17 Question Id : 302616617 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The perimeter of a circle is equal to that of a square. Their areas are in the ratio of

Options :

1. 14 : 11

2. ✘ 14 : 18

3. ✘ 12 : 11

4. ✘ 12 : 18

Question Number : 18 Question Id : 302616618 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Ankur's present age is seven years less than 2.5 times the age of his cousin Hanit. Ten years from now Ankur's age will be 150 % that of Hanit's age. What is Ankur's present age (in years)?

Options :

1. ✘ 20

2. ✔ 23

3. ✘ 26

4. ✘ 17

Question Number : 19 Question Id : 302616619 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

The upper part of a rocket has a shape of right circular cone of height 3 m while the lower portion is a right circular cylinder with radius 3 m and height 10 m. In order to make room for the engines the base of the rocket is cut inside to a hemisphere whose radius is also 3 m. Find the total volume of the rocket in cubic meters.

Options :

1. ✘ 100π 2. ✘ 90π 3. ✔ 81π 4. ✘ 72π

Question Number : 20 Question Id : 302616620 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

If today is a Monday, then what day will it be after 63 days?

Options :

1. ✘ Friday

2. ✘ Wednesday

3. ✘ Tuesday

4. ✔ Monday

Question Number : 21 Question Id : 302616621 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Ravina and Suniti have a total of ₹ 127 between them, Suniti and Avinash have ₹ 153 between them, while Avinash and Ravina have ₹ 160 between them. How much money does Ravina have?

Options :

1. ✘ ₹ 60

2. ✘ ₹ 93

3. ✔ ₹ 67

4. ✘ ₹ 70

Question Number : 22 Question Id : 302616622 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

A box has 100 pens, out of which 8 are defective. One is drawn at random. Find the probability that the pen is non-defective?

Options :

1. ✔ 23/25

2. ✘ 8/100

3. ✘ 25/23

4. ✘ 100/8

Question Number : 23 Question Id : 302616623 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Find the value of $\sin^4 \frac{\pi}{8} + \sin^4 \frac{3\pi}{8} + \sin^4 \frac{5\pi}{8} + \sin^4 \frac{7\pi}{8}$?

Note: For this question, discrepancy is found in question/answer. So, this question is ignored for all candidates.

Options :

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

2. $\frac{2}{3}$

$$3. \frac{-3}{2}$$

$$4. \frac{-2}{3}$$

Question Number : 24 Question Id : 302616624 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Which of the following statements regarding a rectangle is INCORRECT?

Note: For this question, discrepancy is found in question/answer. So, this question is ignored for all candidates.

Options :

1. Its adjacent sides are not equal.
2. All of its diagonals are equal.
3. Its diagonals are not equal.
4. Its diagonals are perpendicular to each other.

Question Number : 25 Question Id : 302616625 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Complete the following.

$$\Delta ABC \quad \cos(B + C/2) = ?$$

Options :

1. ✘ $\sin A + B/2$
2. ✘ $\cos A$
3. ✘ $\cot B$
4. ✔ $\sin A/2$

Question Number : 26 Question Id : 302616626 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Vani is mother of Swati. How is Swati's only son related to Vani?

Options :

1. ✘ Son
2. ✔ Grandson

3. ✘ Uncle

4. ✘ Brother

Question Number : 27 Question Id : 302616627 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Samarth is brother of Sadhan. How is Sadhan's mother's brother related to Samarth?

Options :

1. ✘ Grand father

2. ✔ Maternal Uncle

3. ✘ Brother

4. ✘ Father

Question Number : 28 Question Id : 302616628 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

X is Y's sister. X is the wife of Z. Y is the second daughter of M. Y is the _____ of Z.

Options :

1. ✘ brother

2. ✘ brother-in-law

3. ✘ sister

4. ✔ sister-in-law

Question Number : 29 Question Id : 302616629 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Read the given statement(s) and conclusions carefully and select which of the conclusions logically follow(s) from the statement(s).

Statements:

I. Some trinkets are silver.

II. All silver are metals.

Conclusions:

1. Some silver are trinkets.

2. Some metals are trinkets.

Options :

1. ✘ Conclusion 1 alone follows.

2. ✓ Both 1 and 2 follows.
3. ✗ Conclusion 2 alone follows.
4. ✗ Neither 1 nor 2 follows.

Question Number : 30 Question Id : 302616630 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Find the odd one out from among the given options.

Options :

1. ✗ Spoon
2. ✓ Mirror
3. ✗ Rod
4. ✗ Blade

Question Number : 31 Question Id : 302616631 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

If X is Y's sister, Z is Y's mother, W is Z's father, then Z's sister is X's _____

Options :

1. ✗ Sister in law
2. ✓ Aunt
3. ✗ Sister
4. ✗ Mother

Question Number : 32 Question Id : 302616632 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Read the statements and identify the logically correct conclusion from the given information.

Statement:

Kashmir is the heaven on Earth.

Conclusions:

- I. Kashmir is the most beautiful place.
- II. Kashmiris are the best people.

Options :

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

Question Number : 33 Question Id : 302616633 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Read the given statement and choose which argument is strong.

Question:

Should there be a total ban on hunting tigers?

Argument:

1. Yes, hunting tigers involves a lot of money.
2. No, ban on hunting tiger is of no use.

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

Question Number : 34 Question Id : 302616634 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Given is a question followed by two arguments numbered 1 and 2. Read the question and decide which of the arguments is strong with respect to the question.

Question:

Should distance education be abolished in India?

Arguments:

1. Yes, only interaction between teachers and students will improve the personality of the student.
2. No, all students cannot afford fees for regular education.

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.

Question Number : 35 Question Id : 302616635 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Consider the statement and the following arguments and decide which of the arguments is/are strong with respect to the statement.

Statement:

Post 10:00 pm, should playing of loud, heavy metal music be banned in residential localities?

Arguments:

- I. Yes, it creates too much of noise pollution. Old people as well as young children are affected by it
- II. No, banning is not the solution, others must be allowed to enjoy their recreation

Options :

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

Question Number : 36 Question Id : 302616636 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Find the next letter in the series:

CY, DV, FR, IM, ?

Options :

1. ✘ MA
2. ✘ MC
3. ✘ GK
4. ✔ MG

Question Number : 37 Question Id : 302616637 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Find the missing number in the given series?

N-100, K-81, ?, E-49, B-36

Options :

1. H-64
2. T-120
3. U-46
4. B-64

Question Number : 38 Question Id : 302616638 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

If L means +, M means -, N means X, P means ÷ then, what is the value of 28N5L50P5M4?

Options :

1. 150
2. 148
3. 146
4. 170

Question Number : 39 Question Id : 302616639 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Complete the alphabet series ZXYW, VTUS, RPQO, NLMK, _____, _____.

Options :

1. FBZW, ZXYW
2. ACBD, ZXYV
3. JHIG, FDEC
4. EFGH, ZYWX

Question Number : 40 Question Id : 302616640 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Read the given question and decide which of the following statements is/are sufficient to answer the question.

Question:

Who is the youngest amongst A, B, C and D?

Statements:

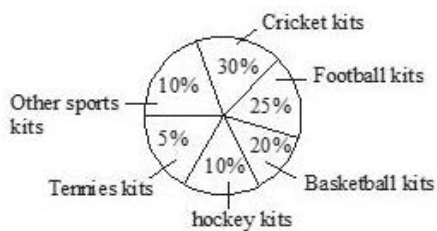
1. A is older than D and B.
2. C is older than A.

Options :

1. ✘ Statement 1 alone is sufficient.
2. ✔ Both the statements are insufficient.
3. ✘ Statement 2 alone is sufficient.
4. ✘ Both the statements together are sufficient.

Question Number : 41 Question Id : 302616641 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The following pie diagram shows information on sale of sports kits by company XYZ. The total revenue made during the year 2016 is \$36,82,000.



What was the revenue made on "Hockey kits" (in \$) in 2016?

Options :

1. ✘ 90,200
2. ✘ 1,84,100
3. ✔ 3,68,200
4. ✘ 7,36,400

Question Number : 42 Question Id : 302616642 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

You are given a question and two statements. Identify which of the statements is/are necessary/sufficient to answer the question.

Question:

Does watching too much mobile bring headache?

Statements:

1. Over stimulation of pituitary glands leads to headache.
2. Watching Mobile stress eyes which in turn stimulate pituitary glands.

Options :

1. ✘ 1 alone is sufficient while 2 alone is not sufficient
2. ✘ 2 alone is sufficient while 1 alone is not sufficient
3. ✘ Either 1 or 2 alone is sufficient
4. ✔ Both 1 and 2 together are sufficient

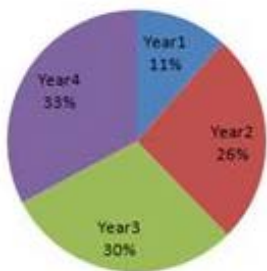
Question Number : 43 Question Id : 302616643 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Study the pie chart and answer the following question.

The total income over 5 years is ₹ 75,00,000

What is the total income from year 2 and year 3?

Sales in lakhs



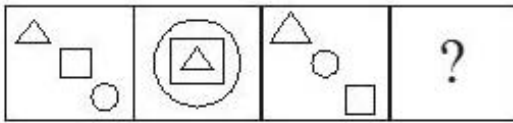
Options :

1. ✔ ₹ 42,00,000
2. ✘ ₹ 42,50,000
3. ✘ ₹ 45,00,000
4. ✘ ₹ 43,00,000

Question Number : 44 Question Id : 302616644 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
 Single Line Question Option : No Option Orientation : Vertical

Find the next figure for the given series:

Problem figures:



Answer figures:



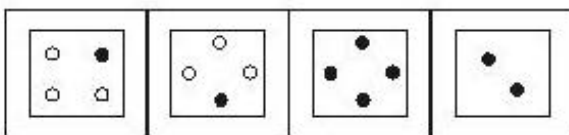
A B C D

Options :

1. ✓ A
2. ✗ B
3. ✗ C
4. ✗ D

Question Number : 45 Question Id : 302616645 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
 Single Line Question Option : No Option Orientation : Vertical

Find the odd one out from the below series of shapes:



A B C D

Options :

1. ✗ A
2. ✗ B
3. ✗ C
4. ✓ D

Question Number : 46 Question Id : 302616646 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
 Single Line Question Option : No Option Orientation : Vertical

Which does NOT belong to this group?

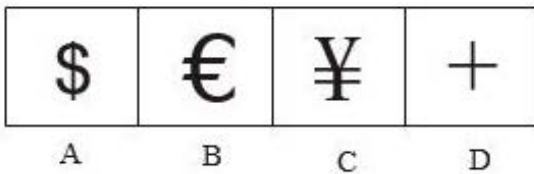
- A. Violinist
- B. Singer
- C. Dancer
- D. Swimmer

Options :

- 1. ✘ A
- 2. ✘ B
- 3. ✘ C
- 4. ✔ D

Question Number : 47 Question Id : 302616647 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Find the ODD one out:

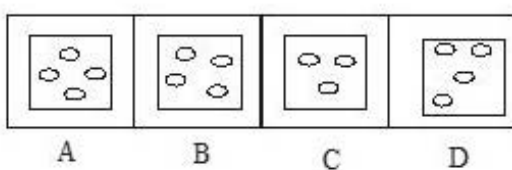


Options :

- 1. ✘ A
- 2. ✘ B
- 3. ✘ C
- 4. ✔ D

Question Number : 48 Question Id : 302616648 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Identify the odd one from the given figures.



Options :

- 1. ✘ A

2. ✘ B

3. ✔ C

4. ✘ D

Question Number : 49 Question Id : 302616649 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Select the option figure that will complete the series of question figures.

Question figures:

?														
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Option Figures:

A	B								
<table border="1"> <tr> <td>±</td> <td>Ω€</td> </tr> <tr> <td>↗↖</td> <td>*±*</td> </tr> </table>	±	Ω€	↗↖	*±*	<table border="1"> <tr> <td>*±*</td> <td>Ω€</td> </tr> <tr> <td>↖↗</td> <td>±</td> </tr> </table>	*±*	Ω€	↖↗	±
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Ω€	*±*								
↖↗	±∧±								
Ω€	*±*								
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Options :

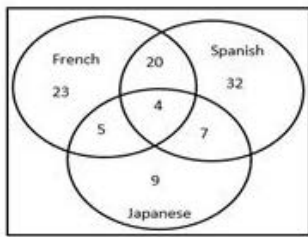
1. ✘ A

2. ✘ B

3. ✘ C

4. ✔ D

Question Number : 50 Question Id : 302616650 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical



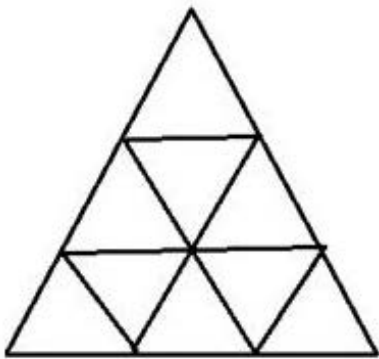
The diagram represents the number of students in a class who study 3 languages. The number of students studying all three language– French ,Spanish and Japanese– is:

Options :

1. ✘ 100
2. ✔ 4
3. ✘ 41
4. ✘ 16

Question Number : 51 Question Id : 302616651 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

How many triangles are present in the given figure?



Options :

1. ✘ 12
2. ✘ 14
3. ✔ 13
4. ✘ 15

Question Number : 52 Question Id : 302616652 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

From a vegetable vendor, 10 bought ladies' finger, 15 bought bitter gourd, 20 bought onions, 2 bought all the three and 5 bought at least two of these. How many bought exactly one vegetable?

Note: For this question, discrepancy is found in question/answer. So, this question is ignored for all candidates.

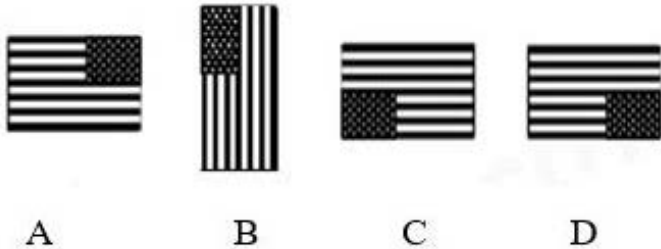
Options :

1. 45
2. 40
3. 33
4. 25

Question Number : 53 Question Id : 302616653 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
 Single Line Question Option : No Option Orientation : Vertical



Which of the below is the rotated image of the above figure?



Options :

1. ✘ A
2. ✘ B
3. ✘ C
4. ✔ D

Question Number : 54 Question Id : 302616654 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
 Single Line Question Option : No Option Orientation : Vertical

Mr. X is running a marathon starting from point A. He runs 5 km towards north and reaches point B. Then, he turns right, runs 6 km and reaches point C. Then, he turns right, runs 8 km and reaches point D. Then, he turns right, runs 10 km and reaches point E. Then, he turns right, runs 6 km and reaches point F. Then, he turns right, runs 1 km and reaches point G. Then, he turns right, runs 3 km and reaches point H.

The shortest distance between point B and H is:

Options :

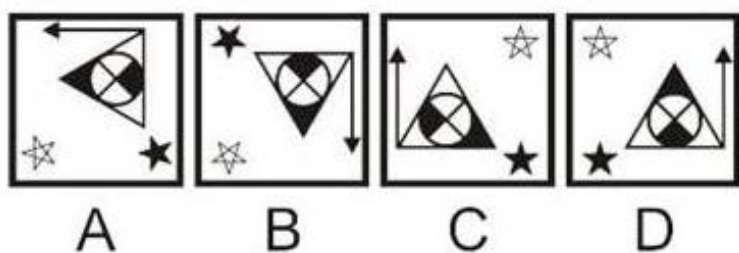
1. ✘ $3\sqrt{34}$
2. ✔ $\sqrt{34}$

3. ✘ $2\sqrt{34}$

4. ✘ $2\sqrt{43}$

Question Number : 55 Question Id : 302616655 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Find the mirror image of the given figure if the mirror is placed to the right.



Options :

1. ✘ A

2. ✘ B

3. ✘ C

4. ✔ D

Question Number : 56 Question Id : 302616656 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Which one of the following is the equation for Velocity Time relation?

Options :

1. ✔ $V = u + at$

2. ✘ $S = ut + \frac{1}{2} at^2$

3. ✘ $2as = v^2 - u^2$

4. ✘ $U = v + at$

Question Number : 57 Question Id : 302616657 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

A coin, a feather and a brick are dropped together from a height in a Vacuum. Which of the following statements is true in this case?

Options :

1. ✘ The brick will reach the bottom before the coin and the feather.
2. ✘ The coin will reach the bottom before the brick and the feather.
3. ✔ The brick, the coin and the feather will all reach the bottom at the same time.
4. ✘ The coin and brick will reach the bottom together before the feather.

Question Number : 58 Question Id : 302616658 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

The momentum of a body is 50 Kg.ms^{-1} and its velocity is 5ms^{-1} . What is the mass of the body?

Options :

1. ✘ 10 N
2. ✔ 10 Kg
3. ✘ 250 N
4. ✘ 250 Kg

Question Number : 59 Question Id : 302616659 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

The density of an object of mass 300 kg and volume 150 m^3 is _____.

Options :

1. ✘ 2 kgm^3
2. ✔ 2 kgm^{-3}
3. ✘ 2 kgm^2
4. ✘ 2 kgm^{-2}

Question Number : 60 Question Id : 302616660 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

A more powerful engine can do more work in less time, such as an aero plane covers more distance in less time than a car; consequently, aero plane is more powerful than a car. This is an example of which of these?

Options :

1. ✘ Energy
2. ✔ Power
3. ✘ Waves
4. ✘ Work done

Question Number : 61 Question Id : 302616661 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

A boy, of mass 50 kg, runs up a staircase of 41 steps in 10 s. If the height of each step is 15 cm, find his power.

Take $g = 10 \text{ ms}^{-2}$

Options :

1. ✔ 307.5 W
2. ✘ 307.5 J
3. ✘ 387.5 W
4. ✘ 307.5 ms

Question Number : 62 Question Id : 302616662 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

The value of 'g' is taken as:

Note: For this question, discrepancy is found in question/answer. So, this question is ignored for all candidates.

Options :

1. 9.7 m/s^2
2. 9.8 m/s^{-2}
3. 9.8 cm/s^2
4. 10 km/s^2

Question Number : 63 Question Id : 302616663 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Which of the following statement is/are true/false about speed of sound in different media at 25°C ?

- A. In helium gas, speed of sound is 965 km/s.
- B. In hydrogen gas, speed of sound is 1284 km/s.

Options :

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

Question Number : 64 Question Id : 302616664 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

The ability of a medium to refract light is also expressed in terms of its _____ .

Options :

1. ✘ mass density
2. ✔ optical density
3. ✘ surface density
4. ✘ area density

Question Number : 65 Question Id : 302616665 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Identify the example of a conventional source of energy.

Options :

1. ✘ Solar
2. ✘ Nuclear
3. ✘ Wind
4. ✔ Natural gas

Question Number : 66 Question Id : 302616666 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

How much work is done in moving a charge of 5 C across two points having a potential difference of 13 V?

Options :

1. ✘ 13 J
2. ✘ 5 J

3. ✓ 65 J

4. ✗ 2.4 J

Question Number : 67 Question Id : 302616667 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

16 g of oxygen has _____ atoms of oxygen.

Options :

1. ✗ 6.022×10^{-23}

2. ✗ 6.022×10^{20}

3. ✓ 6.022×10^{23}

4. ✗ 6.022×10^{-20}

Question Number : 68 Question Id : 302616668 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

At what temperature can water exist in liquid as well as solid state?

Options :

1. ✗ -1°C

2. ✓ 0°C

3. ✗ 100°C

4. ✗ -100°C

Question Number : 69 Question Id : 302616669 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

When you pour some acetone on your palm, your palm feels cool. This is because of which one of the given processes?

Options :

1. ✗ Condensation

2. ✓ Evaporation

3. ✗ Sublimation

4. ✗ Fusion

Question Number : 70 Question Id : 302616670 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

_____ is the weakest acid among the following.

Options :

1. ✓ Benzoic acid
2. ✗ Hydrofluoric acid
3. ✗ Formic acid
4. ✗ Oxalic acid

Question Number : 71 Question Id : 302616671 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Which of the following statements is/are true?

- A. An unbalanced chemical equation has an equal number of atoms of different elements in the reactants and products.
- B. A balanced chemical equation has an unequal number of atoms of one or more elements in the reactants and products.

Options :

1. ✗ Only A is true
2. ✗ Only B is true
3. ✗ A and B are both true
4. ✓ A and B are both false

Question Number : 72 Question Id : 302616672 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

What is formed when a metal reacts with oxygen?

Options :

1. ✗ Non-metal oxide
2. ✗ Metal hydroxide
3. ✗ Non-metal hydroxide
4. ✓ Metal oxide

Question Number : 73 Question Id : 302616673 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

A solution of MgO is _____ .

Options :

1. ✘ neutral
2. ✘ acidic
3. ✔ basic
4. ✘ amphoteric

Question Number : 74 Question Id : 302616674 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Which of the following is known as wonder element?

Options :

1. ✔ Titanium (Ti)
2. ✘ Lithium (Li)
3. ✘ Gold(Au)
4. ✘ Mercury(Hg)

Question Number : 75 Question Id : 302616675 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

How does the Metallic Character of an element vary in the Modern Periodic Table?

Options :

1. ✘
The Metallic Character decreases from left to right in a period and from top to bottom in a group.
2. ✘
The Metallic Character increases from left to right in a period and from top to bottom in a group.
3. ✘
The Metallic Character increases from left to right in a period but decreases from top to bottom in a group.
4. ✔
The Metallic Character decreases from left to right in a period but increases from top to bottom in a group.

Question Number : 76 Question Id : 302616676 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

There are _____ types/kinds of venation in leaves of angiospermic plants.

Options :

1. ✘ three
2. ✔ two
3. ✘ four
4. ✘ six

Question Number : 77 Question Id : 302616677 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

In the hierarchy of classification, which grouping has the largest number of organisms with a maximum of common characteristics?

Options :

1. ✘ Family
2. ✘ Order
3. ✔ Kingdom
4. ✘ Genus

Question Number : 78 Question Id : 302616678 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

The _____ is the main thinking part of the brain

Options :

1. ✘ mid-brain
2. ✔ fore-brain
3. ✘ spinal cord
4. ✘ medulla

Question Number : 79 Question Id : 302616679 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

_____ is a unisexual flower.

Options :

1. ✘ Sunflower
2. ✘ Hibiscus

3. ✓ Papaya

4. ✗ Mustard

Question Number : 80 Question Id : 302616680 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

_____ divides into many daughter cells simultaneously by multiple fission.

Options :

1. ✗ Yeast

2. ✗ Hydra

3. ✓ Plasmodium

4. ✗ Planaria

Question Number : 81 Question Id : 302616681 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

As of 15th March 2018, who is the coach of the under 19 Indian Cricket team?

Options :

1. ✓ Rahul Dravid

2. ✗ Sanjay Bangar

3. ✗ Bharat Arun

4. ✗ Kiran More

Question Number : 82 Question Id : 302616682 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

In 2008 Summer Olympic games, who became the first Indian to win an individual gold medal?

Options :

1. ✗ Vijender Singh

2. ✓ Abhinav Bindra

3. ✗ Sushil Kumar

4. ✗ Rajyavardhan Singh Rathore

Question Number : 83 Question Id : 302616683 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Begum Hazrat Mahal cup held recently, is associated with which of the following sports?

Options :

1. ✘ Hockey
2. ✘ Kabaddi
3. ✔ Football
4. ✘ Cricket

Question Number : 84 Question Id : 302616684 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Which feature film was selected as the best Hindi feature film in the 2017 National Film Award?

Options :

1. ✘ Rustom
2. ✔ Neerja
3. ✘ Dangal
4. ✘ Kadvi Hawa

Question Number : 85 Question Id : 302616685 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Who was considered as the Queen of Thumri, a common genre of semi-classical Indian music?

Options :

1. ✘ MS Subbulakshmi
2. ✘ Kesarbai Kerkar
3. ✘ Anoushka Shanker
4. ✔ Girija Devi

Question Number : 86 Question Id : 302616686 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

In which of the following field 'Godavari Gaurav Award' for excellence is presented?

Options :

1. ✔ Cinema

2. ✘ Sports

3. ✘ Journalism

4. ✘ Politics

Question Number : 87 Question Id : 302616687 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Which homegrown MNC was named the innovator of the year 2017 in the Times India Awards?

Options :

1. ✘ Hero Motocorp

2. ✔ Mahindra & Mahindra

3. ✘ Hindustan Unilever Limited

4. ✘ Mindtree

Question Number : 88 Question Id : 302616688 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

What is Shereen Bhan known for?

Options :

1. ✘ Counsellor and Therapist

2. ✘ Sportsperson and Coach

3. ✔ Indian journalist and News Anchor

4. ✘ Industrialist and Business Tycoon

Question Number : 89 Question Id : 302616689 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Name the British billionaire of Indian origin who is currently challenging market leader Tesla for making the world's largest lithium-ion battery.

Options :

1. ✘ Akshay Ruparelia

2. ✘ Gopichand Hinduja

3. ✘ Prakash Lohia

4. ✓ Sanjeev Gupta

Question Number : 90 Question Id : 302616690 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

What is the expansion of the Indian political coalition, NDA?

Options :

1. ✗ National Dravidian Alliance
2. ✗ National Defense Alliance
3. ✗ National Demographic Alliance
4. ✓ National Democratic Alliance

Question Number : 91 Question Id : 302616691 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Which of the following countries is Shinzo Abe, who visited India in the month of September 2017, the Prime minister of?

Options :

1. ✗ Nepal
2. ✗ China
3. ✓ Japan
4. ✗ India

Question Number : 92 Question Id : 302616692 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Who has inaugurated the first-ever Persons of Indian Origin (PIO) Parliamentary Conference in Delhi?

Options :

1. ✗ Venkaiah Naidu
2. ✓ Narendra Modi
3. ✗ Bharrat Jagdeo
4. ✗ Kamla Persad-Bissessar

Question Number : 93 Question Id : 302616693 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

As of August 2018, who is the chief minister of Sikkim?

Options :

1. ✘ Biplab Deb
2. ✘ Manik Sarkar
3. ✔ Pavan Kumar Chamling
4. ✘ Conrad Sangma

Question Number : 94 Question Id : 302616694 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

The Rig Veda consists of _____ hymns including the apocryphal Valakhilya hymns.

Options :

1. ✘ 760
2. ✘ 1549
3. ✔ 1028
4. ✘ 1875

Question Number : 95 Question Id : 302616695 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

The greatest architectural monument of the _____ period is the Brihadeswara Temple at Tanjavur.

Options :

1. ✔ Chola
2. ✘ Pandaya
3. ✘ Rashtrakuta
4. ✘ Pratihara

Question Number : 96 Question Id : 302616696 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Ankleshwar and Kalol are two oilfields in _____.

Options :

1. ✘ Assam

2. ✘ Mumbai High

3. ✔ Gujarat

4. ✘ Mathura

Question Number : 97 Question Id : 302616697 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

The state language of Kerala is _____.

Options :

1. ✘ Marathi

2. ✘ Corgi

3. ✘ Tamil

4. ✔ Malayalam

Question Number : 98 Question Id : 302616698 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

The headquarters of World Trade Organization (WTO) are located in:

Options :

1. ✔ Switzerland

2. ✘ England

3. ✘ USA

4. ✘ France

Question Number : 99 Question Id : 302616699 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

RBI was nationalised in the year:

Options :

1. ✘ 1947

2. ✔ 1949

3. ✘ 1955

4. ✘ 1962

Question Number : 100 Question Id : 302616700 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Which of the following cities is included in the batch of 9 new cities selected for the Smart City Mission in January, 2018:

Options :

1. ✔ Itanagar

2. ✘ Ghaziabad

3. ✘ Aligarh

4. ✘ Jhargram