CUET General Test Solutions

Date: 06 October 2022, Shift: 1

Question ID: 654701
Actress and Model “Harnaaz Sandhu” was crowned as ___ in Dec 2021.

Solution: Sandhu was announced Miss Universe 2021 by host Steve Harvey and crowned by the outgoing titleholder Andrea Meza of Mexico.

Question ID: 654702
If each side of a cube is reduced by 50%. the surface area will reduced by.

Solution: If each side of a cube is reduced by 50%, it means that the new length of each side will be 50% of the original length. In other words, the new length will be half of the original length.

Let's assume the original length of each side of the cube is "x". After reducing each side by 50%, the new length of each side will be 0.5x.

The surface area of a cube is given by the formula: 6 * (side length)^2.

The original surface area of the cube is:
A1 = 6 * x^2

The new surface area of the cube after reducing each side by 50% is:
A2 = 6 * (0.5x)^2 = 6 * (0.25x^2) = 1.5x^2

To calculate the reduction in surface area, we can compare the original surface area to the new surface area:

Reduction in surface area = (A1 - A2) / A1 * 100%

Substituting the values:
Reduction in surface area = (6x^2 - 1.5x^2) / 6x^2 * 100%
Reduction in surface area = (4.5x^2) / 6x^2 * 100%
Reduction in surface area = 0.75 * 100%
Reduction in surface area = 75%

Therefore, if each side of a cube is reduced by 50%, the surface area will be reduced by 75%.

Question ID: 654703
If * is an operation such that a * b = 3a - 4b. find the value of 3*4

Solution: To find the value of 3 * 4 using the given operation, we substitute a = 3 and b = 4 into the expression 3a - 4b:

3 * 4 = 3(3) - 4(4)
= 9 - 16
= -7

Therefore, 3 * 4 = -7 using the given operation.

Question ID: 654706
Two numbers are in ratio of 7:10 and if the sum of the numbers is 119. Find the difference of the numbers.

Solution: Let's assume the two numbers in the ratio 7:10 are 7x and 10x, where x is the common ratio.

According to the given information, the sum of the numbers is 119:

7x + 10x = 119

Combining like terms:

17x = 119

To find the value of x, we divide both sides of the equation by 17:

x = 119 / 17
x = 7

Now, we can find the actual values of the numbers:

First number = 7x = 7 * 7 = 49
Second number = 10x = 10 * 7 = 70

The difference between the two numbers is:

70 - 49 = 21

Therefore, the difference of the numbers is 21.

Question ID: 654707
Sho is the first (chief of) Defence Staff of the Indian Armed Forces?

Solution: General Bipin Rawat was the first Chief of Defence Staff.

Question ID: 654709
What is the next number 2, 9, 28, 65, __.

Solution: The series follows the rule:

$1^3 + 1$, $2^3 + 1$, $3^3 + 1$, $4^3 + 1$

So the term in place of is $5^3 + 1$ is 125 + 1 = 126

Question ID: 6547010
“Neeraj Chopra” is associated with which sports event?

Solution: Javelin Throw

Question ID: 6547011
The missing term of the series is A2, C5, E8, G11, __.

Solution: To determine the pattern in the given series and find the missing term, let's examine the relationship between the terms:

The series appears to consist of alternating letters and numbers. The letters follow the pattern of increasing by 2 (A, C, E, G), while the numbers increase by 3 (2, 5, 8, 11).

Using this pattern, we can find the missing term:

The next letter should be "I" (G + 2).
The next number should be 14 (11 + 3).

Therefore, the missing term in the series is "I14".

Question ID: 6547012
What is the full form of NABARD?

Solution: National Bank for Agriculture and Rural Development.

Question ID: 6547019
Which of the following standing committee of parliament has no member from Rajya Sabha?

Solution: The correct answer is the Estimates Committee. The Estimates Committee has 30 members and all these members are from Lok Sabha(Lower House). There is no representation from Rajya Sabha (Upper House).

Question ID: 6547020
New education policy, 2020 is goal to achieve 100% Gross Enrolment Ratio (GER) in school Education by the year __.

Solution: It will be a top priority to bring these children back into the educational fold as early as possible, and to prevent further students from dropping out, with a goal to achieve 100% Gross Enrolment Ratio in preschool to secondary level by 2030.

Question ID: 6547023
Which of the following date World Environment Day is celebrated?

Solution: 5th June is celebrated as World Environment Day for encouraging worldwide awareness and action to protect our environment.

Question ID: 6547026
Which of the following seas has highest salinity in the world?

Solution: The Dead Sea is landlocked and in the lowest valley on earth. All the minerals of the surrounding countryside get washed into one pool,

which in turn gets baked by the sun. This concentrates the salts so much that the Dead Sea is 10 times as salty as the ocean.

Question ID: 6547027

If the sugar price is increased by 25% by how much percent consumption should be reduced that expense remains the same?

Solution: To determine the percent by which consumption should be reduced so that the expense remains the same after a 25% increase in sugar price, we can set up a proportion.

Let's assume the original price of sugar is 100 units (you can use any value as the base, as the percentage change will remain the same).

After a 25% increase in price, the new price of sugar will be 100 + (25% of 100) = 100 + 25 = 125 units.

Now, let's assume the original consumption of sugar is "x" units.

The original expense is the price multiplied by the consumption:
Expense = Price * Consumption = 100 * x = 100x

To keep the expense the same after the price increase, the new consumption should be reduced.

Let's assume the new consumption is "y" units.

The new expense is the new price multiplied by the new consumption:
Expense = New Price * New Consumption = 125 * y = 125y

Since we want the new expense to be equal to the original expense, we set up the equation:

100x = 125y

Now, let's solve for y to find the new consumption:

y = (100x) / 125
y = 4x / 5

To determine the percentage change in consumption, we calculate the difference between the original consumption (x) and the new consumption (y), divide it by the original consumption (x), and multiply by 100:

Percentage Change in Consumption = ((x - y) / x) * 100
Percentage Change in Consumption = ((x - 4x/5) / x) * 100
Percentage Change in Consumption = ((x/5) / x) * 100
Percentage Change in Consumption = (1/5) * 100
Percentage Change in Consumption = 20%

Therefore, consumption should be reduced by 20% to keep the expense the same after a 25% increase in sugar price.

Question ID: 6547028
Mohan's Mother is three times as old as Mohan. After 6 years. his mother will be two times as old as he will be them. find the age of Mohan.

Solution: Let's assume Mohan's age as "x" years.

According to the given information, Mohan's mother is three times as old as Mohan, so her age would be 3x years.

After 6 years, Mohan's age will be x + 6, and his mother's age will be 3x + 6.

The problem states that after 6 years, his mother will be two times as old as Mohan will be at that time. Mathematically, we can express this as:

$3x + 6 = 2(x + 6)$

Now, let's solve this equation to find the value of x, which represents Mohan's current age:

$3x + 6 = 2x + 12$

Subtracting 2x from both sides:

$3x - 2x + 6 = 12$

Simplifying:

$x + 6 = 12$

Subtracting 6 from both sides:

$x = 6$

Therefore, Mohan is currently 6 years old.

Question ID: 6547029
Which organisation published the Human Development Index (HDI) Report?

Solution: The Human Development Report (HDR) is an annual Human Development Index report published by the Human Development Report Office of the United Nations Development Programme (UNDP).

Question ID: 6547030
Penicillium is a __.

Solution: Penicillium is well known and one of the most common fungi occurring in a diverse range of habitats, from soil to vegetation to air, indoor environments and various food products. It has a worldwide distribution and a large economic impact on human life.

Question ID: 6547032
Which one of the following is the correct sequence in the decreasing order of contribution of different sources to the gross domestic product (GDP) in India.

Solution: Industry-Agriculture-Services

Question ID: 6547034
Which one of the following bills must be passed by each house of the India parliament separately by special majority?

Solution: Constitution Amendment Bills have to be passed in each House of Parliament by a special majority i.e. by a majority of the total membership of that House and by a majority of not less than two-thirds of the members of the House “present and voting”.

Question ID: 6547035
The average of the first 8 multiples of 8 is?

Solution: To find the average of the first 8 multiples of 8, we can list out the multiples and calculate their sum.

The first 8 multiples of 8 are:
8, 16, 24, 32, 40, 48, 56, 64

To calculate the average, we sum up these numbers and divide by the count, which is 8 in this case:

Average = (8 + 16 + 24 + 32 + 40 + 48 + 56 + 64) / 8

Calculating the sum:
Average = 288 / 8

Dividing the sum by 8:
Average = 36

Therefore, the average of the first 8 multiples of 8 is 36.

Question ID: 6547037
At hill stations, the boiling point of water will be ___.

Solution: The boiling point is the temperature at which the vapour pressure of the liquid equals the environmental pressure surrounding the liquid. Atmospheric pressure is due to air above any given point. The atmospheric pressure at high altitudes like hill station is less than at the sea level.Thus, vapour pressure will equal atmospheric pressure at a comparatively low temperature. Thus, the boiling point of water is reduced less than at sea level.

Question ID: 6547042
The headquarter of RBI is situated at _.

Solution: Mumbai, Maharashtra, India.

Question ID: 6547043
Who is the chairman of the 15th Finance Commission?

Solution: N. K. Singh

Question ID: 6547044
Headquarters of World Health Organization (WHO) is located at -

Solution: Geneva, Switzerland.

Question ID: 6547046
The deepest oceanic trench "Mariana" is located in -

Solution: The Mariana Trench is an oceanic trench located in the western Pacific Ocean.

Question ID: 6547047
Find the value of $(25)^3 + (-29)^3 + (4)^3$.

Solution: Since 25 + (-29) + 4 = 0

We can use the formula:
Since a + b + c = 0
Then a^3 + b^3 + c^3 = 3abc
Therefore, $(25)^3 + (-29)^3 + (4)^3$ = 3x25x(-29)x4 = -8700.

Question ID: 6547049
One TB approximately occupies or comprises data or space size of.

Solution: 1 TB = 1024 GB (Approximately)

Question ID: 6547051
Who is known as “Nightingale of India” ?

Solution: Sarojini Chattopadhyay Naidu was a key figure during India's independence struggle. Her work as a poet earned her the title of 'Nightingale of India' from Mahatma Gandhi.