# Solved Sample Paper
# CUET UG

## (General Test)

**IMPORTANT INSTRUCTIONS:**

1.   **The test is of 60 Minutes duration.**

2.   **The test contains 75 Questions out of which 60 questions need to be attempted.**

**Marking Scheme of the test:**

a.   **Correct answer or the most appropriate answer: Five marks (+5)**

b.   **Any incorrect option marked will be given minus one mark (–1).**

c.   **Unanswered/Marked for Review will be given no mark (0).**

**Choose the correct answer :**

**Question ID: 702401**

Indian Army organized "Bijoya Sanskritik Mahotsav" from 26 to 29 September 2021 in

(A) Pune       (B) Kolkata

(C) Kanpur       (D) Prayagraj

**Answer (B)**

**Sol.** Indian Army organized "Bijoya Sanskritik Mahotsav" in Kolkata from 26 to 29 September 2021.

**Question ID: 702402**

The International Day of Sign Languages (IDSL) is celebrated annually across the world on

(A) 10 April       (B) 23 September

(C) 20 November       (D) 10 December

**Answer (B)**

**Sol.** The UN General Assembly has proclaimed 23 September as the International Day of Sign Languages (IDSL) in order to raise awareness of the importance of sign language in the full realization of the human rights of people who are deaf.

**Question ID: 702403**

International Literacy Day is observed globally on _____ every year.

(A) 5 September       (B) 5 October

(C) 8 September       (D) 8 October

**Answer (C)**

**Sol.** International Literacy Day is celebrated every year on September 8 to highlight the importance of literacy to individuals, communities and societies.

**Question ID: 702404**

The world's highest movie theatre has recently been inaugurated in

(A) Ladakh

(B) Himachal Pradesh

(C) Jammu and Kashmir

(D) Sikkim

**Answer (A)**

**Sol.** Ladakh got its first mobile digital movie theatre at an altitude of 11,562 feet which makes it the highest theatre in the world.

**Question ID: 702405**

Who created history as she became the first Indian woman finalist at the World Wrestling Championship 2021 and also the first female player from India to claim a silver medal?

(A) Alka Tomar       (B) Vinseh Phogat

(C) Anshu Malik       (D) Sakshi Malik

**Answer (C)**

**Sol.** Haryana's Anshu Malik became the first Indian woman to reach to the finals of the world wrestling championship 2021.

**Question ID: 702406**

There are three words given which have something in common among themselves. Out of the four alternatives, choose the most appropriate description about these words.

Prakrit : Pali : Sanskrit

(A) They are classical languages of Asia and Europe

(B) The vedas are written in these languages

(C) They are old languages of India

(D) They are dead languages

**Answer (C)**

**Sol.** Prakrit, Pali and Sanskrit are the old languages of India.

**Question ID: 702407**

Form the following pairs, select the combination of right pairs.

(a) Netherlands: Euro       (b) UAE: Dinar

(c) Russia: Rouble       (d) Turkey: Lira

(e) Korea: Rial

Choose the **correct** answer from the options given below.

(A) (b), (d), (c)       (B) (a), (c), (d)

(C) (b), (e), (d)       (D) (c), (a), (b)

**Answer (B)**

**Sol.**

| Country | | Currency |
|---|---|---|
| Netherlands | – | Euro |
| UAE | – | Dirham |
| Russia | – | Rouble |
| Turkey | – | Lira |
| Korea | – | South Korean Won |

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**Question ID: 702408**

Arrange the given words in the sequence in which they occur in the dictionary.

(a) Bishop
(b) Bifocal
(c) Bicycle
(d) Bitter
(e) Brink

Choose the **correct** answer from the options given below.

(A) (e), (b), (a), (d), (c)
(B) (b), (c), (d), (a), (e)
(C) (c), (b), (a), (d), (e)
(D) (a), (c), (d), (e), (b)

**Answer (C)**

**Sol.** (a) Bishop – (3)
(b) Bifocal – (2)
(c) Bicycle – (1)
(d) Bitter – (4)
(e) Brink – (5)
(c), (b), (a), (d), (e)

**Question ID : 702409**

Match **List-I** with **List- II.**

| List-I | List-II |
|---|---|
| (a) Avesta | (I) Jew |
| (b) Torah | (II) Muslim |
| (c) Tripitaka | (III) Parsi |
| (d) Kuran | (IV) Buddhist |

Choose the **correct** answer from the options given below:

(A) (a) – (II), (b) – (I), (c) – (III), (d) – (IV)
(B) (a) – (III), (b) – (I), (c) – (IV), (d) – (II)
(C) (a) – (IV), (b) – (II), (c) – (I), (d) – (III)
(D) (a) – (I), (b) – (II), (c) – (IV), (d) – (III)

**Answer (B)**

**Sol.**

| Avesta | - | Parsi |
|---|---|---|
| Torah | - | Jew |
| Tripitaka | - | Buddhist |
| Kuran | - | Muslim |

**Question ID : 702410**

Match **List-I** with **List-II.**

| List-I | List-II |
|---|---|
| (a) Botany | (I) Animals |
| (b) Zoology | (II) Blood |
| (c) Pathology | (III) Plants |
| (d) Haematology | (IV) Diseases |

Choose the **correct** answer from the options given below:

(A) (a) – (II), (b) – (III), (c) – (IV), (d) – (I)
(B) (a) – (I), (b) – (II), (c) – (III), (d) – (IV)
(C) (a) – (III), (b) – (I), (c) – (IV), (d) – (II)
(D) (a) – (IV), (b) – (II), (c) – (III), (d) – (I)

**Answer (C)**

**Sol.**

| Botany | - | Plants |
|---|---|---|
| Zoology | - | Animals |
| Pathology | - | Diseases |
| Haematology | - | Blood |

**Question ID : 702411**

Among the four options, three objects/things have same properties. Find the odd one out.

(A) Confluence
(B) Concourse
(C) Concentration
(D) Radiation

**Answer (D)**

**Sol.** Radiation shows property of spreading while other show property of concentration at a point.

**Question ID : 702412**

Match **List-I** with **List-II.**

| List-I Pass | List-II State |
|---|---|
| (a) Bomdila | (I) Jammu and Kashmir |
| (b) Banival | (II) Sikkim |
| (c) Rohtang | (III) Arunachal Pradesh |
| (d) Nathula | (IV) Himachal |

Choose the **correct** answer from the options given below:

(A) (a) – (III), (b) – (I), (c) – (II), (d) – (IV)
(B) (a) – (I), (b) – (III), (c) – (IV), (d) – (II)
(C) (a) – (III), (b) – (I), (c) – (IV), (d) – (II)
(D) (a) – (I), (b) – (III), (c) – (II), (d) – (IV)

**Answer (C)**

**Sol.**

| | List-I (Pass) | | List-II (State) |
|---|---|---|---|
| (a) | Bomdila | - | Arunachal Pradesh |
| (b) | Banival (Banihal) | - | Jammu and Kashmir |
| (c) | Rohtang | - | Himachal Pradesh |
| (d) | Nathula | - | Sikkim |

**Question ID : 702413**

Match **List-I** with **List-II.**

| | List-I | | List-II |
|---|---|---|---|
| (a) | High | (I) | Peace |
| (b) | Chaos | (II) | Rejoice |
| (c) | Mourn | (III) | Deny |
| (d) | Affirm | (IV) | Low |

Choose the **correct** answer from the options given below:

(A) (a) – (III), (b) – (II), (c) – (I), (d) – (IV)

(B) (a) – (I), (b) – (II), (c) – (IV), (d) – (III)

(C) (a) – (IV), (b) – (I), (c) – (II), (d) – (III)

(D) (a) – (II), (b) – (III), (c) – (IV), (d) – (I)

**Answer (C)**

**Sol.** Opposite to each other.

**Question ID : 702414**

There are three words given which have something in common among themselves. Out of the four alternatives choose the most appropriate description about these three words.

Ovary : Uterus : Cervix

(A) They are excretory organs

(B) They are reproductive organs

(C) They are endocrine glands

(D) They are organ for fertilization in plants

**Answer (B)**

**Sol.** Cervix is a reproductive organ.

**Question ID : 702415**

Arrange the given words in the sequence in which they occur in the dictionary.

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Choose the **correct** answer from the options given below:

(A) (a), (d), (e), (b), (c)  (B) (d), (e), (a), (b), (c)

(C) (a), (c), (d), (e), (b)  (D) (a), (b), (c), (d), (e)

**Answer (B)**

**Sol.**

(a) Leprosy … (3)

(b) Lessen … (4)

(c) Lesson … (5)

(d) Language … (1)

(e) Languid … (2)

Hence (d), (e), (a), (b), (c)

**Question ID : 702416**

Match **List-I** with **List-II.**

| | List-I | | List-II |
|---|---|---|---|
| (a) | OZ | (I) | 23 |
| (b) | KL | (II) | 27 |
| (c) | PK | (III) | 16 |
| (d) | DL | (IV) | 41 |

Choose the **correct** answer from the options given below:

(A) (a) – (IV), (b) – (II), (c) – (I), (d) – (III)

(B) (a) – (III), (b) – (I), (c) – (II), (d) – (IV)

(C) (a) – (IV), (b) – (I), (c) – (II), (d) – (III)

(D) (a) – (I), (b) – (IV), (c) – (III), (d) – (II)

**Answer (C)**

**Sol.** $\underset{15\ 26}{OZ} \Rightarrow 41$

$\underset{11\ 12}{KL} \Rightarrow 23$

$\underset{16\ 11}{PK} \Rightarrow 27$

$\underset{4\ 12}{DL} \Rightarrow 16$

(a) Leprosy   (b) Lessen

(c) Lesson   (d) Language

(e) Languid

**Question ID: 702417**

Who among the following were elected as the President and Vice-president both?

(a)  Zakir Hussain

(b)  Neelam Sanjeev Reddy

(c)  Jail Singh

(d)  K.R. Narayanan

(e)  Shankar Dayal Sharma

Choose the **correct** answer from the options given below :

(A) (a), (c) and (d) only

(B) (b), (d) and (e) only

(C) (b), (c) and (e) only

(D) (a), (d) and (e) only

**Answer (D)**

**Sol.** Zakir Hussain, K.R. Narayanan, Shankar Dayal Sharma were elected as the President as well as Vice-president of India.

**Question ID: 702418**

Which number will replace the question mark ?



(A) 9                    (B) 3

(C) 8                    (D) 4

**Answer (D)**

**Sol.** $10 \times 3 = 5 \times 6$

$9 \times 4 = 6 \times 6$

$9 \times 8 = 18 \times ?$

$72 = 18 \times 4$

**Question ID: 702419**

Bewilderness always comprise _____.

(A) Difficulty          (B) Anxiety

(C) Helpless State      (D) Sharpness

**Answer (B)**

**Sol.** Bewilderness promote mental tension, and mental tension promote anxiety.

**Question ID: 702420**

Given set is (2, 17, 31) is set of :

(a) Prime numbers      (b) Whole numbers

(c) Odd numbers        (d) Even numbers

Choose the **correct** answer from the options given below :

(A) (a) only           (B) (a) and (b) only

(C) (b) only           (D) (c) and (d) only

**Answer (B)**

**Sol.** (2, 17, 31) is a set of prime and whole numbers.

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**Question ID: 702421**

Find the next figure of given series.
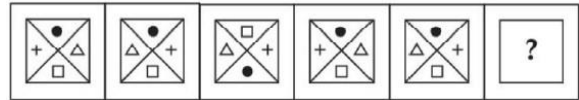


**Answer (D)**

**Question ID: 702422**

From the given options which word can't be formed by using the letters of the word :

"CATERING"

(a) CREATING

(b) REACTING

(c) RETIRING

(d) ARGENTIC

Choose the **correct** answer from the options given below :

(A) (a)                (B) (b)

(C) (c)                (D) (d)

**Answer (C)**

**Sol.** RETIRING → Because there are no 2 times I in given word

**Question ID: 702423**

There are three words which have something in common among themselves. Out of the four given alternatives choose the most appropriate description about these three words.

Knight : Rook : Bishop

(A) These are missionaries

(B) These are chessmen

(C) These are churchmen

(D) These are ranks of military

**Answer (B)**

**Sol.** These are chessmen

**Question ID: 702424**

Arrange the given words in the sequence in which they occur in the dictionary.

(a) Amphibian          (b) Amorphous

(c) Amphidextrous     (d) Ambiguous

(e) Ambivalent

Choose the **correct** answer from the options given below :

(A) (a), (c), (d), (e), (b)

(B) (e), (b), (c), (d), (a)

(C) (a), (c), (d), (b), (e)

(D) (d), (e), (b), (a), (c)

**Answer (D)**

**Sol.** (a) Amphibian          ….(4)

(b) Amorphous        ….(3)

(c) Amphidextrous   ….(5)

(d) Ambiguous        ….(1)

(e) Ambivalent        ….(2)

Hence, (d), (e), (b), (a), (c)

**Questions ID : 702425**

Which among the following is a super computer of America?

(A) Param              (B) Mira

(C) Anupam          (D) SAGA-220

**Answer (B)**

**Sol.** Mira is a super computer of America.

Param, Anupam and SAGA-220 are the super computers of India.

**Questions ID : 702426**

Eight friends A, B, C, D, E, F G and H are placed in this manner.
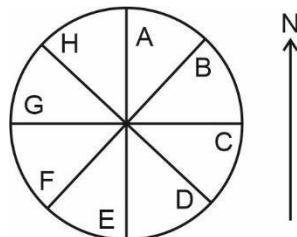


All are facing outward. If all of them move one position in clockwise direction, then the direction, E will be facing is:

(A) South West          (B) South East

**Answer (A)**

**Sol.**
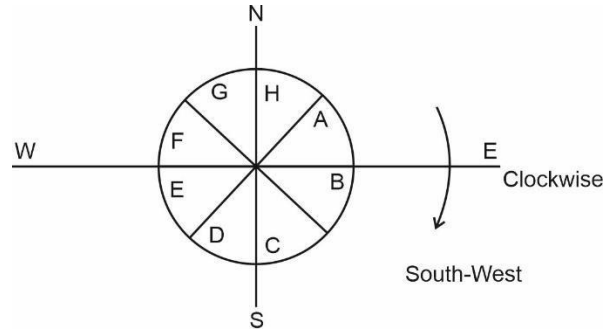


**Questions ID : 702427**

Which among the following is a kharif crop?

(A) Wheat              (B) Peas

(C) Mustard          (D) Maize

**Answer (D)**

**Sol.** Maize is a kharif crop.

Wheat, Peas, Mustard are the rabi crops.

**Questions ID : 702428**

Which was the first Spacecraft to carry man on the Moon?

(A) Sputnik-08        (B) Sputnik-10

(C) Apollo-11         (D) Apollo-15

**Answer (C)**

**Sol.** Apollo-11 was the American spacecraft that first landed humans on the moon in 1969.

**Questions ID : 702429**

Which letters exactly are midway between F and S in the English alphabet?

(A) LM                (B) MN

(C) KL                (D) JK

**Answer (A)**

**Sol.** F G H I J K L M N O P Q R S

**Questions ID : 702430**

Consider a watch becomes fast by 10 minutes everyday. By what percent does it become fast?

(A) $\frac{5}{12}$%          (B) $\frac{1}{6}$%

(C) $\frac{25}{36}$%         (D) 2.5%

**Answer (C)**

**Sol.** Total minute in one day = 1440 min

Clock gain = 10 min

(C) South          (D) West

So, $\dfrac{10}{1140} \times 100 = \dfrac{100}{144} = \dfrac{25}{36}\%$

**Questions ID : 702431**

A 400 m long train passes a railway platform in 20 seconds with speed 90 km/hr. What is the length of platform?

(A) 105 m  (B) 102 m

(C) 99 m  (D) 100 m

**Answer (D)**

**Sol.** $L_1$ = 400 m

$L_2$ = ?

T = 20 sec

Speed = 90 km  $90 \times \dfrac{5}{18} = 25$ m/s

$T = \dfrac{L_1 + L_2}{x} \Rightarrow 20 = \dfrac{400 + L_2}{25} \Rightarrow 500 = 400 + L_2$

$L_2 = 100$

**Questions ID : 702432**

Match **List-I** with **List-II**

| List-I | List-II |
|---|---|
| (A) Cerebrum | (I) Involuntary muscular co-ordination |
| (2) Diencephalon | (II) Regulate heart rate |
| (3) Cerebellum | (III) Intelligence |
| (4) Medulla oblongata | (IV) Heat, cold and pain control |

Choose the **correct** answer from the options given below :

(A) (A) – (III), (B) – (IV), (C) – (I), (D) – (II)

(B) (A) – (II), (B) – (III), (C) – (I), (D) – (IV)

(C) (A) – (IV), (B) – (I), (C) – (II), (D) – (III)

(D) (A) – (I), (B) – (III), (C) – (IV), (D) – (II)

**Answer (A)**

**Sol.** Cerebrum – Intelligence

Diencephalon – Meat, Cold and panic control

Cerebellum – Involuntary muscular co-ordination

Medulla oblongata – Regular heart rate

**Question ID: 702433**

An amount becomes its 3 times in 20 years. What is the rate of simple interest per annum?

(A) 15%  (B) 10%

Then amount = 3$x$

so $S.I = \left(\dfrac{P \times R \times T}{100}\right)$

$2x = \left(\dfrac{x \times r \times 20}{100}\right)$

S.I = Amount – Principal

= 3$x$ – $x$

= 2$x$

Rate $= \left(\dfrac{2x \times 100}{x \times 20}\right)$% = 10% p.a

**Question ID: 702434**

Which of the following represents $x.y = 64$ ?

(A) $8 : x = 8 : y$  (B) $x : 8 = y : 8$

(C) $x : 16 = y : 4$  (D) $32 : x = y : 2$

**Answer (D)**

**Sol.** $32 : x = y : 2$

$\dfrac{32}{x} = \dfrac{y}{2} \Rightarrow 32 \times 2 = x.y$

$\Rightarrow 64 = x.y.$

**Question ID: 702435**

Ratio $5^{8.14} : 5^{5.14}$ is equal to :

(A) 1 : 5  (B) 5 : 1

(C) 25 : 1  (D) 125 : 1

**Answer (D)**

**Sol.** $5^{8.14} : 5^{5.14}$

$\Rightarrow \dfrac{5^{8.14}}{5^{5.14}} \Rightarrow (8.14 - 5.14) = 3$

$\dfrac{5^3}{1} = \dfrac{125}{1}.$

(C) 6.67%  (D) 6%

**Answer (B)**

**Sol.** Let principal = x

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**Question ID: 702436**

The sum of the ages of 5 children born at intervals of 3 years each is 50 years. What is the age of the youngest child ?

(A) 4 years           (B) 7 years

(C) 9 years           (D) 10 years

**Answer (A)**

**Sol.** $\dfrac{50}{5} = 10 = x$

| $x-6$ | $x-3$ | $x$ | $x+3$ | $x+6$ |
|---|---|---|---|---|
| 4 | 7 | 10 | 13 | 16 |

youngest.

**Question ID: 702437**

The average of 3 even consecutive integers is 12. What is their product ?

(A) 1640          (B) 1690

(C) 1650          (D) 1680

**Answer (D)**

**Sol.** Average $= \dfrac{\text{Total sum of no.}}{\text{Total no.}} = \dfrac{\overline{x}}{3} = 12$

$x$ must be $= 36$

so no. are 10, 12, 14

then

their product is $= 1680$.

**Question ID: 702438**

Find the average of following numbers.

12, 15, 18, 14, 16, 13, 25, 28, 23, 27

(A) 18.25          (B) 12.5

(C) 19.1          (D) 16.1

**Answer (C)**

**Sol.** Average $= \dfrac{\text{Sum of all numbers}}{\text{Total no.}} = \dfrac{191}{10} = 19.1.$

**Question ID: 702439**

Which among the following is a base?

(A) NaCl          (B) NaOH

(C) HCl          (D) $MgCl_2$

**Answer (B)**

**Sol.** In general, metal hydroxides are basic in nature.

**Question ID: 702440**

What percent decrease in salaries would exactly cancel the 20 percent increase ?

(A) $15\dfrac{1}{3}\%$          (B) $14\dfrac{2}{3}\%$

(C) $16\dfrac{2}{3}\%$          (D) $33\dfrac{1}{3}\%$

**Answer (C)**

**Sol.** Let salary is $= x$

Increase in salary $= \dfrac{20}{100} + x = \dfrac{x}{5}$

Total salary after increased $= \dfrac{x+x}{5} \Rightarrow \dfrac{6x}{5}$

**Question ID : 702441**

The Escape velocity at the Earth's surface is:

(A) 11.2 km/sec          (B) 112 km/sec

(C) 11.2 km/minute          (D) 112 km/hour

**Answer (A)**

**Sol.** Escape velocity at Earth's surface is 11.2 km/sec

**Question ID : 702442**

P, Q and R can complete a work in 12, 9 and 15 days respectively. Working together, they will complete the same work in:

(A) $3\dfrac{39}{47}$ days          (B) $5\dfrac{15}{42}$ days

(C) $3\dfrac{38}{47}$ days          (D) $5\dfrac{39}{47}$ days

**Answer (A)**

**Sol.**

$P \rightarrow \dfrac{1}{12}$ — 15

$Q = \dfrac{1}{9}$ — 180 → 20

$R = \dfrac{1}{15}$ — 12
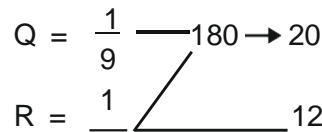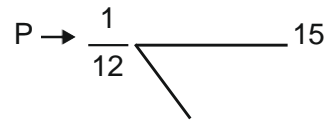
Total work = 180

Work done by all = 47

So, Days $= \dfrac{180}{47} = 3\dfrac{39}{47}$ days

**Question ID : 702443**

If 36 farmers can do a piece of work in 24 hours, In how many hours will 18 farmers do it?

(A) 36 hours          (B) 42 hours

(C) 48 hours          (D) 56 hours

**Answer (C)**

**Sol.** Total work $\rightarrow$ Men $\times$ Hrs

864 unit $\rightarrow$ 36 $\times$ 24

Then,

864 = 18 $\times$ Hrs

$\dfrac{864}{18}$ = Hrs = 48 hrs

**Question ID : 702444**

The LCM and HCF of two numbers are 35 and 15 respectively. The product of these numbers is

Let y% be the decrease in salary such that it cancel

out 20% increase

$$\frac{6x}{5}\left(1 - \frac{y}{100}\right) = x$$

$$\Rightarrow 1 - \frac{y}{100} = \frac{5}{6} \Rightarrow y = \frac{50}{3} = 16\frac{2}{3}\%$$

.

(A) 625    (B) 525
(C) 425    (D) 325

**Answer (B)**

**Sol.** As we know
HCF × LCM = Product of two number

15 × 35 = 525

**Question ID : 702445**

What will be the simple interest earned on an amount of ` 22000 in 8 months at $8\frac{1}{4}\%$ per annum?

(A) ` 1013        (B) ` 1012

(C) ` 1210        (D) ` 1215

**Answer (C)**

**Sol.** P = 22,000

$R = 8\frac{1}{4} = \frac{33}{4}\%$

$T = 8 \text{ month} = \frac{2}{3} \text{ years}$

$S.I = \frac{P \times R \times T}{100} = \frac{22000 \times 33 \times 2}{4 \times 3 \times 100} = 1210$

**Question ID : 702446**

The value of $3 - 3 \div 3$:

(A) 2        (B) 4

(C) 0        (D) 1

**Answer (A)**

**Sol.** $3 - 3 \div 3$

$3 - 1 = 2$

**Question ID : 702447**

If 20% of a number is 30, then the number is :

(A) 6        (B) 150

(C) 60        (D) 15

**Answer (B)**

**Sol.** 20% = 30

$1\% = \frac{30}{20}$

Then

$100\% = \frac{30}{20} \times 100 = 150$

**Question ID : 702448**

Which city of the world is known as "the city of Golden Gate"?

(A) Jaipur        (B) Amritsar

**Question ID: 702449**

The contribution of agriculture sector to the GDP of India is around _____ at current Prices.

(A) 10%        (B) 12%

(C) 20%        (D) 25%

**Answer (C)**

**Sol.** The share of agriculture in GDP increased to 19.9%.

**Question ID: 702450**

The value of $x^{a-b} \times x^{b-c} \times x^{c-a}$ is :

(1) 1        (2) 0

(3) −1        (4) x

**Answer (A)**

**Sol.** $x^{(a-b)} \times x^{(b-c)} \times x^{c-a}$

$\Rightarrow x^{a-b+b-c+c-a} = x^° = 1$

**Question ID: 702451**

If two adjacent angles of a parallelogram are $(2x + 30)°$ and $(3x - 15)°$. Then the value of x is :

(A) 36        (B) 39

(C) 33        (D) 35

**Answer (B)**

**Sol.** We know the sum of two adjacent angle of parellogram is 180°

So, $(2x + 30) + (3x - 15) = 180°$

$\Rightarrow 5x + 15 = 180°$

$\Rightarrow 5x = \frac{180}{6} - 15$

$\Rightarrow 5x = 195$

$\Rightarrow x = 39$

**Question ID: 702452**

If lengths of two diagonals of rectangle are $(2x - 3)$ cm and $(x + 2)$ cm, then the value of x is :

(A) 1        (B) 5

(C) San Francisco        (D) Washington

5/

(C)

(D) $\dfrac{5}{2}$

**Answer (B)**

**Answer (C)**

**Sol.** San Francisco is known as "the city of Golden Gate"

The Golden Gate connects San Francisco Bay to the Pacific Ocean.

**Sol.** As we know length of diagonal Rectangle are same.

So, $2x - 3 = x + 2$

$2x - x = 2 + 3$

$x = 5$

**Question ID: 702453**

If a square has a diagonal of length $6\sqrt{2}$ cm, then the area of square is :

(A) 48 cm²        (B) 72 cm²

(C) 16 cm²        (D) 36 cm²

**Answer (D)**

**Sol.** As we know

Side of square = $\dfrac{\text{Diagonal}}{\sqrt{2}}$

$= \dfrac{6\sqrt{2}}{\sqrt{2}} = 6$

So, Area is (Side)² = 6 × 6 = 36 cm²

**Question ID: 702454**

The value of x in the equation 2x – 3 = 7 – 3x

(A) 10        (B) 2

(C) –2        (D) 5

**Answer (B)**

**Sol.** 2x – 3 = 7 – 3x

2x + 3x = 7 + 3

5x = 10

x = 2

**Question ID: 702455**

Please read the following carefully and answer the Questions:

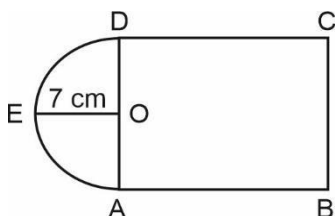In the given figure ABCD is square and OE = 7 cm.
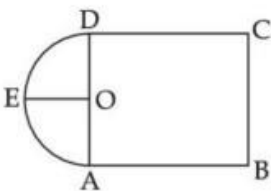


The perimeter of the figure is :

(A) 42 cm        (B) 44 cm

(C) 64 cm        (D) 86 cm

**Answer (C)**

**Sol.**



Perimeter of Semi-Circle = πr = $\dfrac{22}{7} \times = 22$cm

AD = 14 cm

So, Perimeter of figure = 22 + DC + CB + BA

= 22+ 14 + 14 + 14

= 64 cm

**Question ID: 702456**

Please read the following carefully and answer the questions:

In the given figure ABCD is square and OE = 7 cm.



Length of diagonal of the square is :

(A) $14\sqrt{2}$cm        (B) $7\sqrt{2}$ cm

(C) 14 cm        (D) 7 cm

**Answer (A)**

**Sol.** As we Know AD = 14 cm

d = Side $\sqrt{2}$

d = $14\sqrt{2}$ cm

**Question ID:702457**

Please read the following carefully and answer the questions : In the given ABCD is a square and OE = 7 cm



Area covered by the figure is :

(A) 350 cm²        (B) 273 cm²

(C) 372 cm²        (D) 237 cm²

**Answer (B)**

**Sol.** As we know AD = 14 cm

Area of semicircle $= \dfrac{1}{2}\pi r^2 = \dfrac{1}{2} \times \dfrac{22}{7} \times 7 \times 7 = 77$ cm

Area of square = Side = 14² = 196 + 77 $\Rightarrow$ 273 cm²

**Question ID:702458**

Please read the following carefully and answer the questions :

The marks of 7 students in a unit test are given below :

9, 10, 7, 6, 9, 3, 5

The mode of the data is :

(A) 7            (B) 9

(C) 10          (D) 6

**Answer (A)**

**Sol.** Marks given 9 10 7 6 9 3 5 most often digit is 9

Mode = 9

**Question ID:702459**

Please read the following carefully and answer the questions :

The marks of 7 students in a unit test are given below :

9, 10, 7, 6, 9, 3, 5

Median of the data is :

(A) 6            (B) 10

(C) 9            (D) 7

**Answer (D)**

**Sol.** Mark given :- 9 10 7 6 9 3 5

Step 1. Arrange date in Ascending order.

3 5 6 7 9 9 10

As we see no. of observation is odd

So $\dfrac{n+1}{2} = \dfrac{7+1}{2} = \dfrac{8}{2} = 4^{th}$ Observation

So 7 is median

**Question ID:702460**

Please read the following carefully and answer the questions :

The marks of 7 students in a unit test are given below :

9, 10, 7, 6, 9, 3, 5

Mean of the data is :

(A) 9            (B) 10

(C) 7            (D) 6

**Answer (C)**

**Sol.** Given Data = 9 10 7 6 9 3 5

$$\text{Mean} = \frac{\text{Sum of all numbers}}{\text{Total numbers}} = \frac{49}{7} = 7$$

**Question ID:702461**

Five statements are given below followed by options consisting of three statements put together in a specific order. Choose the option which indicates a conclusion drawn from the preceding two statements.

(A) All models are Pretty

(B) Some models are popular

(C) Ruby is Pretty

(D) Ruby is a popular heroine

(E) Some popular girls are Pretty

Choose the **correct** answer from the options given below :

(A) (A), (B), (E)       (B) (A), (C), (D)

(C) (D), (C), (A)       (D) (E), (D), (C)
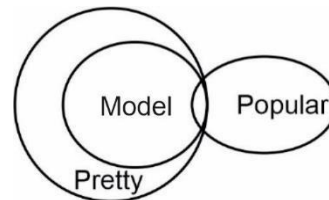
**Answer (A)**

**Sol.** (I) All model are pretty

(II) Some models are popular

I. Some popular girls are pretty

**Means.**



**Question ID:702462**

If A means Addition, B means Division, C means Multiplication and D means Subtraction. Then find the value of 49B7D9A15C6 = ?

(A) −180         (B) 180

(C) 88           (D) 38

**Answer (C)**

**Sol.** $49 \div 7 - 9 + 15 \times 6 =$

$\Rightarrow 7 - 9 + 15 \times 6$

$\Rightarrow 7 - 9 + 90$

$-2 + 90 = 88$

**Question ID:702463**

In the given question, select the related word from the alternatives :

Man : Biography : : Nation :

(A) Population       (B) Autobiography

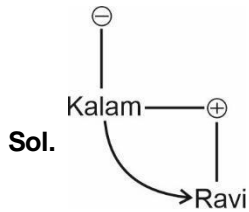(C) History          (D) People

**Answer (C)**

**Sol.** Past things about man is Biography as same past things about nation is History

**Question ID:702464**

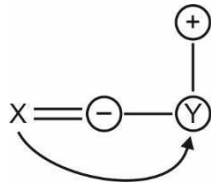Kalam says, "Ravi's mother is the only daughter of my mother", How is Kalam related to Ravi?

(A) Father                 (B) Brother

(C) Maternal Uncle         (D) Uncle

**Answer (C)**

**Sol.**



Kalam is maternal Uncle of Ravi.



**Question ID: 702465**

If * stand for addition

⊗ stand for subtraction

⇔ stand for division

↕ stand for multiplication

≠ stand for equal to

Then which of the following alternatives is correct?

(A) 2 ↕ 5 ⊗ 6 * 2 ≠ 6

(B) 5 * 7 ⊗ 4 ⇔ 2 ≠ 4

(C) 3 ↕ 6 ⇔ 2 * 3 ⊗ 6 ≠ 5

(D) 4 ⇔ 7 * 4 ≠ 2 ↕ 3 ⊗ 1

**Answer (B)**

**Sol.** $5 + 7 - 4 \div 2 = 4$

$12 - 4 \div 2 = 4$

$8 \div 2 = 4$

$4 = 4$

**Question ID: 702466**

Introducing a man X, Y said "His wife is the only daughter of my father." How is X related to Y?

(A) Brother                 (B) Uncle

(C) Husband                (D) Father-in-law

**Answer (??)**

**Question ID: 702467**

Find the missing number from the following given options:
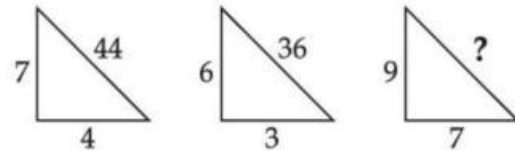


(A) 64                      (B) 63

(C) 16                      (D) 66

**Answer (A)**

**Sol.** In 1$^{st}$ Fig = $(7 + 4) \times 4 = 44$

**Sol.** X brother-in-law of y.

In 2nd Fig = (6 + 3) × 4 = 36

In 3rd Fig = (9 + 7) × 4 = 64

**Question ID: 702468**

Match **List-I** with **List-II**

| List-I | List-II |
|---|---|
| (A) Raj Ghat | (I) Dr. Rajendra Prasad |
| (B) Vijay Ghat | (II) Morarji Desai |
| (C) Abhay Ghat | (III) Mahatma Gandhi |
| (D) Mahaprayan Ghat | (IV) Lal Bahadur Shastri |

Choose the correct answer from the options given below:

(A) (A) – (IV), (B) – (I), (C) – (II), (D) – (III)

(B) (A) – (III), (B) – (IV), (C) – (II), (D) – (I)

(C) (A) – (II), (B) – (III), (C) – (I), (D) – (IV)

(D) (A) – (II), (B) – (III), (C) – (IV), (D) – (I)

**Answer (B)**

**Sol.**
| | | |
|---|---|---|
| Raj Ghat | → | Mahatma Gandhi |
| Vijay Ghat | → | Lal Bahadur Shastri |
| Abhay Ghat | → | Morarji Desai |
| Mahaprayan Ghat | → | Dr. Rajendra Prasad |

**Question ID: 702469**

In the given question select the related letters / words / numbers from the given alternatives:

Mirage : Desert ::

(A) Rain : Rainbow       (B) Rainbow : Sky

(C) Image : Water        (D) Sky : Illusion

**Answer (B)**

**Sol.** Mirage is shown in desert. Same as Rainbow shown in sky.

**Question ID: 702470**

Find the missing number from the following given options.
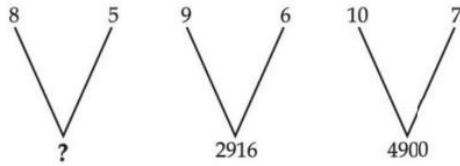


(A) 400        (B) 169

(C) 1600       (D) 80

**Answer (C)**

**Sol.** $9^2 \times 6^2 = 2916$

$10^2 \times 7^2 = 4900$

So, $8^2 \times 5^2 = 1600$

**Questions ID : 702471**

Among the four options given below, three have similarities. Find the odd one out.
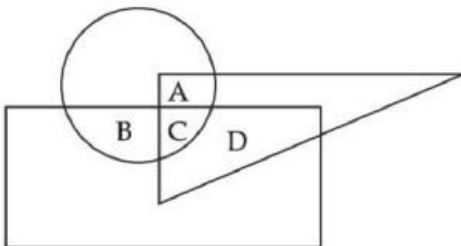
(A) Sepals       (B) Petals

(C) Petiole       (D) Stamen

**Answer (C)**

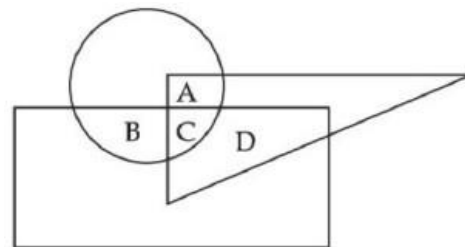**Sol.** Petiole, it is stalk that attaches leaf to stem.

**Questions ID : 702472**

Please read the details carefully:

In the following diagram, the triangle represents doctors, the circle represents players and the rectangle represents singers.
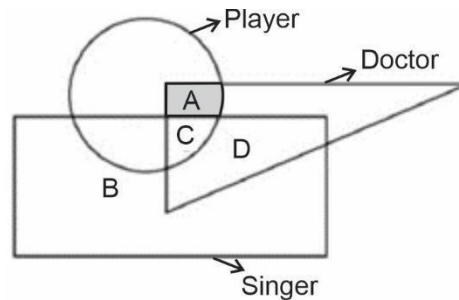


Which region represents doctors who are singers but not players?

(A) A

(B) B

(C) C

(D) D

**Answer (D)**

**Sol.**
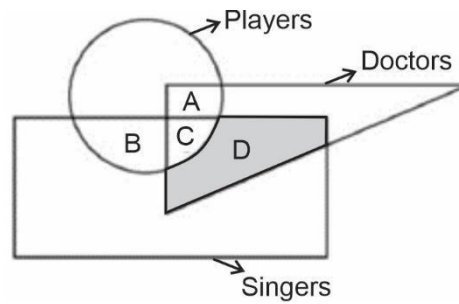


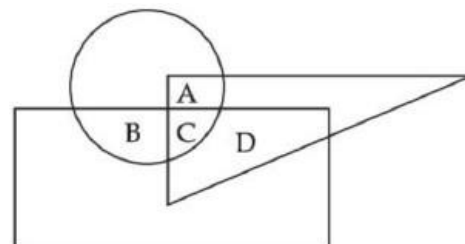**Questions ID: 702473**

Please read the details carefully:

In the following diagram, the triangle represents doctors, the circle represents players and the rectangle represents singers.



Which region represents the doctors who are players but not singers?

(A) A       (B) B

(C) C       (D) D

**Answer (A)**

**Sol.**



**Questions ID : 702474**

Please read the details carefully:

In the following diagram, the triangle represents doctors, the circle represents players and the rectangle represents singers.
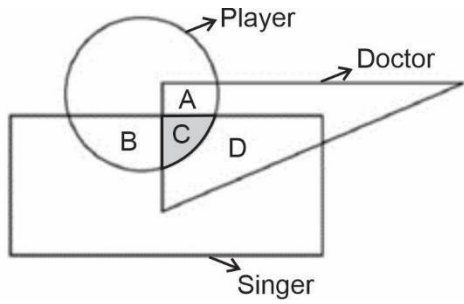
Which of the region represents doctors who are players as well as singers too?
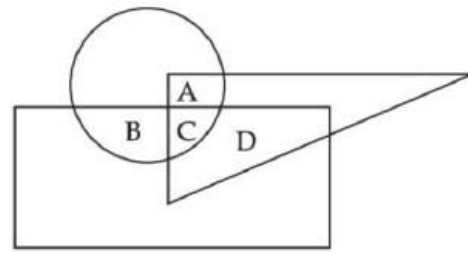
(A) A

(B) B

(C) C

(D) D

**Answer (C)**

**Sol.**



**Questions ID : 702475**

Please read the details carefully:

In the following diagram, the triangle represents doctors, the circle represents players and the rectangle represents singers.



Which region represents the individual who are players as well as singers but not a doctor?

(A) A           (B) B

(C) C           (D) D

**Answer (B)**

**Sol.**