



## SSC CHSL 4 July 2019 Shift-2

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## Reasoning

### Instructions

For the following questions answer them individually

### Question 1

Which two numbers should be interchanged in the following equation to make it correct?

$$618 + 37 \times 12 - 703 \div 14 = 767$$

- A 12 and 37
- B 703 and 12
- C 14 and 37
- D 618 and 14

Answer: C

### Explanation:

By trial and error method,

#### Option A

$$618 + 12 \times 37 - 703 \div 14 = 767$$

703 is not divisible by 14 so we get a decimal number after solving which is not possible

#### Option B

$$618 + 37 \times 703 - 12 \div 14 = 767$$

12 is not divisible by 14 so we get a decimal number after solving which is not possible

#### Option C

$$618 + 14 \times 12 - 703 \div 37 = 767$$

$$618 + 14 \times 12 - 19 = 767$$

$$618 + 168 - 19 = 767$$

$$767 = 767$$

Hence, the correct answer is Option C

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### Question 2

Select the correct mirror image of the given figure when the mirror is placed to the right of the figure.

Y R e d f 8 7 5

- A Ƨ 7 8 Ƨ b e Я Y
- B Ƨ 7 8 Ƨ p e Я X
- C Ƨ 7 8 J b e Я Y
- D Y R e q Ƨ 8 7 5

Answer: A

**Explanation:**

If you clearly notice all the options, the only image that can formed only reversal left-right is A. All others are having one or more letters flipped vertically, which cannot be possible for a mirror image in case of placing the mirror in right hand side.

**Question 3**

Which two signs should be interchanged to make the given equation correct?

$$14 + 4 \div 5 - 18 \times 2 = 25$$

A  $\div$  and  $+$

B  $\times$  and  $\div$

C  $\times$  and  $-$

D  $\times$  and  $+$

Answer: B

**Explanation:**

Hit and trial method.

Lets select option B.

$$14 + 4 \div 5 - 18 \times 2 = 25$$

$$14 + 4 \times 5 - 18 \div 2 = 25$$

$$14 + 20 - 9 = 25$$

Hence proved.

**Question 4**

Two years ago a man was six times as old as his son. In 18 years, he will be twice as old as his son. What are their present ages of the man and his son?

A 32 and 7 years

B 34 and 9 years

C 32 and 13 years

D 34 and 7 years

Answer: A

**Explanation:**

Suppose Man's age = M

Son's age = S

By the problem,

$$M - 2 = 6(S - 2)$$

$$M - 2 = 6S - 12$$

$$6S - M = 10 \dots (i)$$

$$M + 18 = 2(S + 18)$$

$$M + 18 = 2S + 36$$

$$M - 2S = 18 \dots (ii)$$

Solving i and ii we get the required solutions

## SSC CHSL Free Mock Test

### Question 5

Select the correct alternative to indicate the arrangement of the following phrases in a logical and meaningful order.

1. World
2. Mumbai
3. Gateway of India
4. Asia
5. Maharashtra
6. India

- A 3, 2, 5, 6, 4, 1
- B 3, 2, 5, 6, 1, 4
- C 3, 2, 6, 5, 4, 1
- D 3, 2, 5, 4, 6, 1

**Answer: A**

### Explanation:

Lets understand this:

1. World
2. Mumbai
3. Gateway of India
4. Asia
5. Maharashtra
6. India

Well Gateway of India is in Mumbai, which is in the state of Maharashtra, which is in India, a part of Asia, a part of the World.

### Question 6

If 'TRANSFER' is coded as '2018114196518', then how will 'INCLUDED' be coded as in that language?

- A 91331121454
- B 18231220454
- C 81431222353
- D 91431221454

**Answer: D**

### Explanation:

Here, 'TRANSFER' is coded as '2018114196518'.

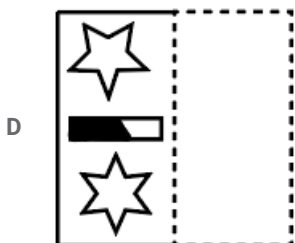
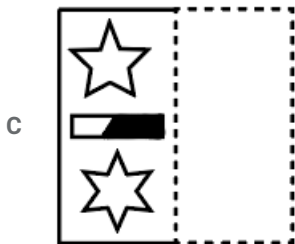
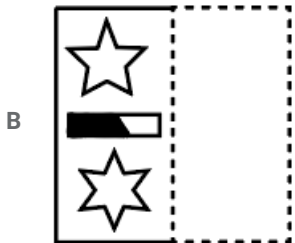
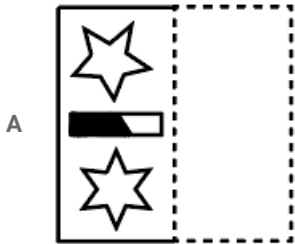
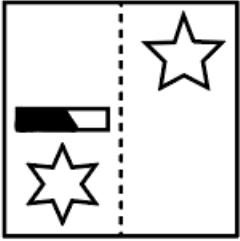
All the place values of the letter are written consecutively in the same order as that of the word.

Such as , T = 20, R = 18, A = 1, N = 14, and so on.

Similarly, INCLUDED will be 91431221454

Question 7

A figure of transparent sheet with a pattern is given below. Figure out from amongst the four options as to how the pattern would appear when the transparent sheet is folded at the dotted line.



Answer: B

Explanation:

Since the right handed figure is folded along the line, no change will be there for the left hand side figure. The only addition will be the star at the top.

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Question 8

Select the term that will come next in the following series.

FBA, IGE, LLI, OQM, ?

- A RVP
- B RUP
- C RVQ
- D QVQ

**Answer: C**

**Explanation:**

See the pattern:-

FBA, IGE, LLI, OQM

$F + 3 = I$

$B + 5 = G$

$A + 4 = E$

Similarly,

$I + 3 = L$

$G + 5 = L$

$E + 4 = I$

Therefore,

$O + 3 = R$

$Q + 5 = V$

$M + 4 = Q$

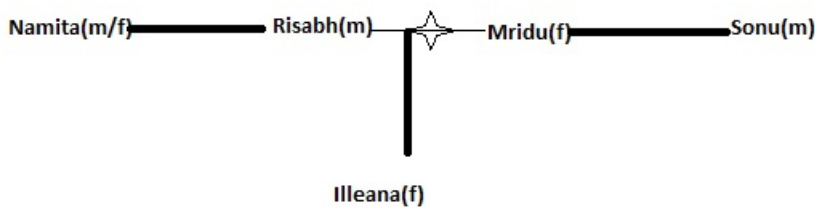
**Question 9**

Rishabh is Namita's only brother. Rishabh's wife, Mridu has a brother Sonu. Illeena is Namita's only niece. How is Sonu related to Illeena?

- A Maternal uncle
- B Brother
- C Father
- D Paternal uncle

**Answer: A**

**Explanation:**



Question 10

Three of the following four numbers are alike in a certain way and one is different. Pick the number that is different from the rest

- A 99
- B 97
- C 89
- D 83

Answer: A

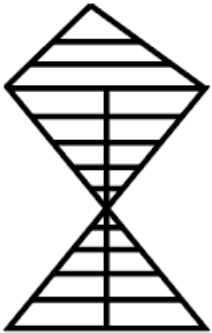
Explanation:

All are prime numbers except 99.

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Question 11

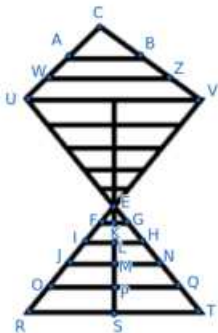
How many triangles are there in the figure given below ?



- A 35
- B 33
- C 32
- D 34

Answer: B

Explanation:



The different number of triangles in the figure ERT are EFK, EGK, EFG, EIL, EHL, EIH, EJM, ENM, EJN, EOP, EQP, EOQ, ERS, ETS, ERT

Number of triangles in the figure ERT = 15

Since figure EUV is similar to figure ERT

Number of triangles in the figure EUV = 15

The remaining triangles in the given figure are CAB, CWZ, CUV

∴ Number of triangles in the given figure = 15 + 15 + 3 = 33

Hence, the correct answer is Option B

#### Question 12

In a code language, 'HEDONISM' is written as 'QFGJOUKP'. How will 'PROFITED' be written as in that language?

- A HQTRFGVK
- B HQTSEFFVK
- C GSQRFGUK
- D HQTREGVL

**Answer:** A

#### Explanation:

'HEDONISM' is written as 'QFGJOUKP'.

Check the pattern here:

H + 2 = J, O + 2 = Q (Positions interchanged)

E + 2 = G, D + 2 = F (Positions interchanged)

N + 2 = P, M + 2 = O (Positions interchanged)

I + 2 = K, S + 2 = U (Positions interchanged)

Follow the simple pattern and get the answer.

#### Question 13

If 'E' is coded as '5' and 'PEN' is coded as '35' then how will 'PAGE' be coded?

- A 27
- B 36
- C 28
- D 29

**Answer:** D

#### Explanation:

The numbers are formed by adding the place value of the alphabets.

Such as E = 5

PEN, where P = 16 E = 5 N = 14, Hence PEN = 16 + 5 + 14 = 35

Similarly, PAGE = 16 + 1 + 7 + 5 = 29

## SSC CGL Free Mock Test (Latest Pattern)

#### Question 14

Select the combination of letters that when sequentially placed in the gaps of the given letter series will complete the series.

U \_ \_ R P K Q \_ U K D \_ P K \_ R \_ K D R \_ K \_ R

- A KQPRQUPQ
- B KDRRQPPR



C KDRRQUPQ

D KDRRUURQ

**Answer: C**

**Explanation:**

U \_ \_ R P K Q \_ U K D \_ P K \_ R \_ K D R \_ K \_ R

Check for every option and put the values in the blanks, to check which one is making pattern.

Putting the values of c:

KDRRQUPQ

U K D R P K Q R U K D R P K Q R U K D R P K Q R

U K D R P K Q R is repeating and hence the pattern.

**Question 15**

Which number will replace the question mark (?) in the following series?

7, 11, ?, 31, 47

A 5

B 19

C 29

D 55

**Answer: B**

**Explanation:**

$$7 + 4 = 11$$

$$11 + 8 = 19$$

$$19 + 12 = 31$$

$$31 + 16 = 47$$

**Question 16**

Select the number-pair in which the two numbers are related in the same way as are the two numbers of the following number-pair.

4 : 49

A 7 : 100

B 5 : 81

C 8 : 144

D 6 : 64

**Answer: A**

**Explanation:**

$$(4+3)^2 = 7^2 = 49$$

Using the same logic,

$$(7+3)^2 = 10^2 = 100$$

Hence, the correct answer is Option A

**Question 17**

In a code language, COLD is written as ALHY. How will IRON be written in the same language?

- A FOKI
- B GOKI
- C GUKI
- D GPKI

**Answer:** B

**Explanation:**

COLD is written as ALHY

C - 2 = A

O - 3 = L

L - 4 = H

D - 5 = Y

Similarly, I - 2 = G

R - 3 = O

O - 4 = K

N - 5 = I

**Question 18**

Three of the following four letter-clusters are alike in a certain way and one is different. Pick the odd one out.

- A KNTQ
- B SVBY
- C DGMJ
- D PSZV

**Answer:** D

**Explanation:**

Find the logic here.

Here 1st and 3rd letter and 2nd and 4th letter are making a pattern.

DGMJ,

D + 9 = M

G + 3 = J

whereas,

PSZV,

P + 10 = Z

S + 3 = V

**Question 19**

Select the set in which the numbers are related in the same way as are the numbers of the following set.  
8, 6, 28

A 12, 6, 98

B 10, 5, 85

C 6, 4, 30

D 7, 2, 45

Answer: D

**Explanation:**

Multiply the (Sum of first two numbers and difference of first two numbers) we get the third number.

8, 6, 28 i.e.  $8+6 = 14$  and  $8-6 = 2$ , therefore we get,  $14*2 = 28$

7, 2, 45 i.e.  $7+2 = 9$ ,  $7-2 = 5$ , therefore we get,  $9*5 = 45$

## SSC CHSL Study Material

**Question 20**

Three of the following four words are alike in a certain way and one is different. Pick the odd word out

A Sandals

B Shirt

C Slippers

D Shoes

Answer: B

**Explanation:**

Except shirt, all are to be worn by foot.

**Question 21**

Select the word-pair in which the two words are related in the same way as are the two words in the following word-pair.

Waiter : Serve

A Mechanic : Repair

B Engineer : Technical

C Lawyer : Legal

D Architect : Fashion

Answer: A

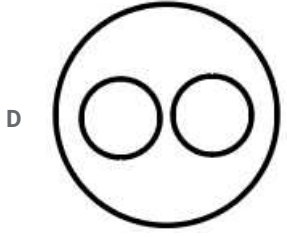
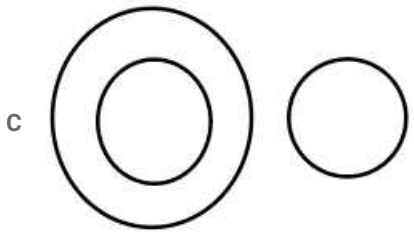
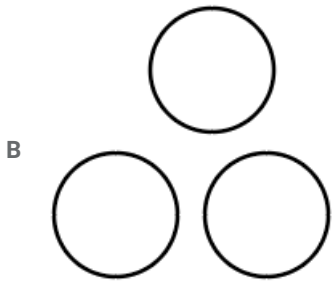
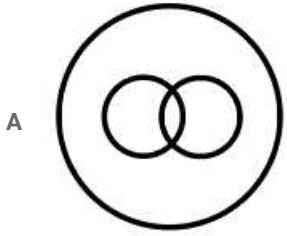
**Explanation:**

It is representing the work of a person, as in, what does a waiter do? answer - serve, Similarly, what does a mechanic do? answer repair. No other options fit this.

**Question 22**

Select the Venn diagram that best illustrates the relationship between the following classes.

Sikkim, Manipur, Imphal



Answer: C

**Explanation:**

Look at the figure C.

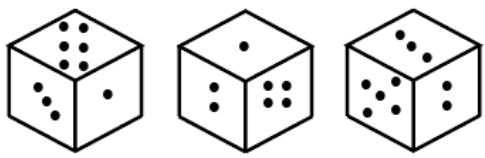
Right hand side circle represents Sikkim,

Since Imphal is the capital of Manipur , it represents the inner left circle , whereas Manipur the outer left circle.

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**Question 23**

Three different positions of the same dice, which has one to six dots on its six faces, are shown below. When six dots are at the bottom then the number of dots on the top will be:



- A 2
- B 4
- C 3
- D 5

Answer: A

**Explanation:**

From the first position of the dice, 1 is not opposite to 3 and 6

From the second position of the dice, 1 is not opposite to 2 and 4

⇒ 1 is opposite to the remaining number 5

From the first position of the dice, 3 is not opposite to 6

From the third position of the dice, 3 is not opposite to 2

⇒ 3 is opposite to the remaining number 4

⇒ Remaining two numbers 2 and 6 are opposite to each other

∴ When six dots are at the bottom the number of dots on the top is 2

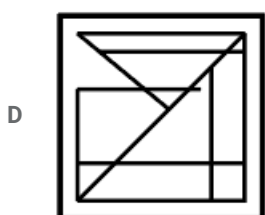
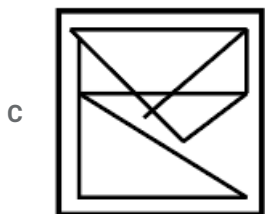
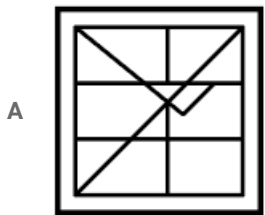
Hence, the correct answer is Option A

**Question 24**

Select the option figure which contains figure X embedded in it as its part. (Rotation is not allowed)



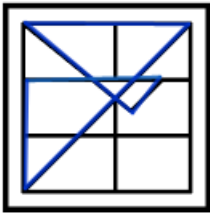
Figure-X



Answer: A

**Explanation:**

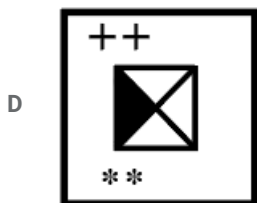
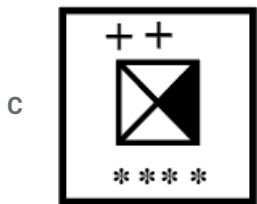
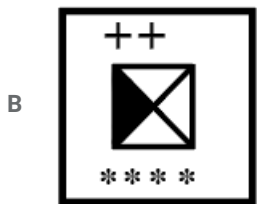
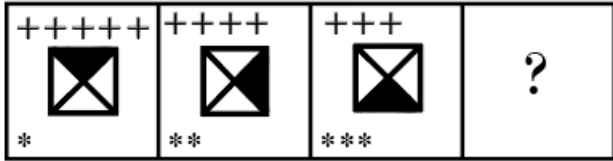
The given figure X is embedded in the figure 1 as shown below



Hence, the correct answer is Option A

**Question 25**

Select the figure that will come next in the following figure series.



Answer: B

**Explanation:**

The only figure where Plus signs are decreasing and stars are increasing as well as the blackened figure is correctly aligned is option (b)

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**General knowledge**

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**Instructions**

For the following questions answer them individually

**Question 26**

Which of the following computers are used in hospitals to measure the heartbeat of patients?

- A Mainframe computers
- B Hybrid computers
- C Digital computers
- D Analog computers

**Answer: B**

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**Question 27**

Which of the following countries was declared as a malaria-free country in May 2019 by World Health Organization?

- A Nigeria
- B Argentina
- C India
- D Madagascar

**Answer: B**

**Question 28**

In March 2019, the Reserve Bank of India bought how many USD billions through long-term forex swap auction in a bid to ease liquidity ahead of elections?

- A USD 4 billion
- B USD 1 billion
- C USD 2 billion
- D USD 5 billion

**Answer: D**

**Question 29**

During the reign of which of the following kings did Chinese traveller Xuanzang visit India?

- A Prabhakara Vardhana
- B Ashoka
- C Chandragupta Maurya
- D Harshavardhana

**Answer: D**

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### Question 30

Which book among the following won the Pulitzer Prize for Fiction 2019?

- A The Underground Railroad
- B The Overstory
- C Less
- D The Sympathizer

Answer: B

### Question 31

Who among the following has the power to promulgate ordinances under Article 123 of the Constitution of India?

- A The Attorney-General
- B The President
- C The Chairman of the Rajya Sabha
- D The Speaker of the Lok Sabha

Answer: B

### Question 32

When is 'International Dance Day' celebrated by the International Theatre Institute (ITI), the main partner for performing arts of UNESCO?

- A 8<sup>th</sup> May
- B 23<sup>rd</sup> March
- C 7<sup>th</sup> June
- D 29<sup>th</sup> April

Answer: D

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### Question 33

Which is the largest bone in the human body?

- A Femur
- B Malleus
- C Stapes
- D Incus

Answer: A



**Question 34**

With how many states/Union Territories does Uttar Pradesh share its borders?

- A 8
- B 9
- C 7
- D 6

**Answer: B**

**Question 35**

In which city of India would you find the Swami Vivekananda Airport?

- A Raipur
- B Ranchi
- C Durgapur
- D Kanyakumari

**Answer: A**

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**Question 36**

What is the minimum age requirement to become a Member of the Legislative Assembly ?

- A 32 years
- B 42 years
- C 20 years
- D 25 years

**Answer: D**

**Question 37**

Albert Einstein was awarded the Nobel Prize in Physics in the year \_\_\_\_\_.

- A 1934
- B 1920
- C 1924
- D 1921

**Answer: D**

**Question 38**

Where was Khelo India Youth Games 2019 held?

- A Noida
- B Delhi
- C Pune
- D Ludhiana

**Answer: C**

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### Question 39

Rafael Nadal, one of the top male tennis players in the world hails from which European country?

- A Serbia
- B Austria
- C Spain
- D Switzerland

**Answer: C**

### Question 40

According to Global Peace Index 2019, which one of the following is the most peaceful country?

- A Iceland
- B Bhutan
- C Indonesia
- D India

**Answer: A**

### Question 41

Which one of the following business groups is associated to Carborundum Universal Limited (CUMI), one of the largest abrasive manufacturing companies in India?

- A Kirloskar Group
- B Murugappa Group
- C Birla Group
- D Adani Group

**Answer: B**

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### Question 42

Who amongst the following established an institution named 'Kalashram' for imparting training in dance and associated disciplines?

- A Lachhu Maharaj
- B Pandit Birju Maharaj
- C Sitara Devi
- D Shambhu Maharaj

**Answer: B**

**Question 43**

Which of the following teams won the UEFA Champions League football trophy at Madrid on 1 June 2019?

- A Real Madrid
- B Manchester United
- C Liverpool
- D Tottenham Hotspur

**Answer: C**

**Question 44**

Which of the following instruments is used for the visual examination of eardrum?

- A Phonograph
- B Optometer
- C Otoscope
- D Polygraph

**Answer: C**

## SSC CHSL Free Mock Test

**Question 45**

Bugyals are high altitude meadows and pastures in the Himalayan slopes. In which state would you find them most?

- A Uttarakhand
- B Sikkim
- C Tamil Nadu
- D Assam

**Answer: A**

**Question 46**

In which Indian state is the Kolleru Lake located?

- A Tamil Nadu
- B Karnataka

- C Kerala
- D Andhra Pradesh

**Answer: D**

**Question 47**

**In May 2019, who among the following was appointed by the UN Secretary-General as the new Force Commander of the United Nations Mission in South Sudan (UNMISS)?**

- A Lieutenant General Frank Kamanzi
- B Lieutenant General Shailesh Tinaikar
- C Private Ankush Cheema
- D Colonel Amit Gupta

**Answer: B**

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**Question 48**

**Who among the following created the Electronic Discrete Variable Automatic Computer (EDVAC) with a memory to hold both, a stored program as well as data?**

- A John von Neumann
- B Bletchley Park
- C Arthur Samuel
- D Thomas H Flowers

**Answer: A**

**Question 49**

**The Barabar Caves, the oldest surviving rock-cut caves in India, mostly belong to which of the following periods?**

- A Maurya Empire
- B Chera Dynasty
- C Gupta Empire
- D Chola Dynasty

**Answer: A**

**Question 50**

**Sanjhi Art is associated to which of the following states of India ?**

- A Rajasthan
- B Uttar Pradesh
- C West Bengal

D Gujarat

Answer: B

## SSC CGL Previous Papers (DOWNLOAD PDF)

### Quant

#### Instructions

For the following questions answer them individually

#### Question 51

There was 29% off on bags. A lady bought a bag and got 12% discount for paying in cash. She paid ₹312.40. What is the price tag (in ₹) on the bag?

A 625

B 600

C 500

D 450

Answer: C

#### Explanation:

According to the problem,

Let Marked price of the bag Rs.  $x$

therefore,

$$x * \frac{71}{100} * \frac{88}{100} = 312.40$$

Solving for  $x$  we get,  $x = \text{Rs } 500$

## SSC CGL Free Mock Test (Latest Pattern)

#### Question 52

In triangle ABC, D and E are two points on the sides AB and AC respectively so that  $DE \parallel BC$  and  $\frac{AD}{BD} = \frac{3}{4}$ . The ratio of the area of trapezium DECB to the area of  $\triangle ABC$  is:

A 40 : 49

B 49 : 40

C 49 : 33

D 33 : 49

Answer: A

#### Question 53

If  $(x - 7)^3 + (x - 8)^3 + (x + 6)^3 = 3(x - 7)(x - 8)(x + 6)$ , then what is the value of  $x$ ?

A 8

B 3

C 6

D 10

Answer: B

Explanation:

We know that, If  $a^3 + b^3 + c^3 = 3abc$  then,  $a + b + c = 0$

Therefore,

We will have,  $x - 7 + x - 8 + x + 6 = 0$

therefore  $3x = 9$

and  $x = 3$

Question 54

If  $\cos \theta = \frac{2p}{p^2+1}$ , then  $\sin \theta$  is equal to:

A  $\frac{p^2+1}{p^2-1}$

B  $\frac{2p}{p^2-1}$

C  $\frac{p^2-1}{p^2+1}$

D  $\frac{2p}{p^2+1}$

Answer: C

Explanation:

$\cos \theta = \frac{2p}{p^2+1}$

We know,  $\cos^2 \theta + \sin^2 \theta = 1$

Hence,

$$\sin^2 \theta = 1 - \left(\frac{2p}{p^2+1}\right)^2$$

Solving that we get C.

## SSC CHSL Important Questions and Answers (Download PDF)

Question 55

A train covers 360 km at a uniform speed. If the speed had been 10 km/h more, it would have taken 3 hours less for the same journey. What is the speed of the train (in km/h)?

A 40

B 30

C 50

D 25

Answer: B

Explanation:

Let the speed be  $x$  km/hr.

Total time taken =  $\frac{360}{x}$  hour

if speed increased by 10 km/hr more , speed becomes,  $(x+10)$  kmph

Time becomes =  $\frac{360}{x+10}$  hour

according to the problem,

$$\frac{360}{x} \text{ hour} - \frac{360}{x+10} = 3$$

$$\Rightarrow x^2 + 10x - 1200 = 0$$

By solving we get,  $x = 30, -40$ . Hence 30 is our required answer.

#### Question 56

A man bought 2 articles for ₹2650 each. He sold one article at 10% profit and another at 5% profit. The total profit percentage he earned is:

- A 10%
- B 7.5%
- C 8.5%
- D 8%

Answer: B

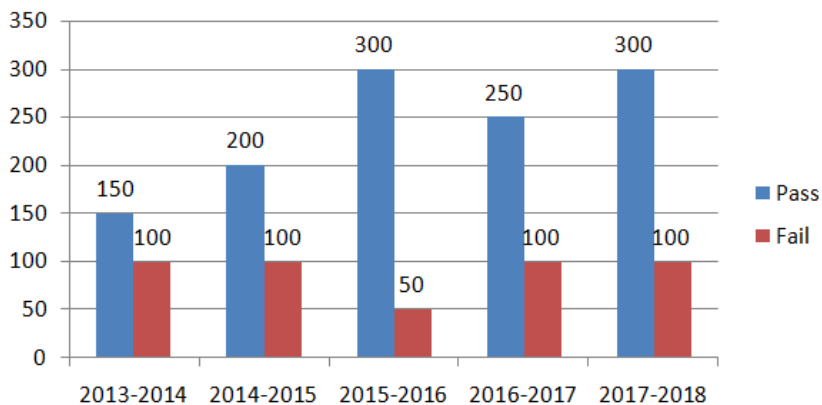
#### Explanation:

Since CP same, Profit percentage will be average of the profit percentage i.e  $(5 + 10)\%$  divided by 2, i.e.  $15/2\% = 7.5\%$

#### Instructions

The given Bar Graph presents the results in terms of number of students in a school for the five academic years, 2013 - 2014 to 2017-2018.

### Result in a School



#### Question 57

In which year the percentage increase in the total number of students is the highest in comparison to the previous academic year?

- A 2014-2015
- B 2017-2018
- C 2016-2017
- D 2015-2016

Answer: A

**Question 58**

What is the average of failed students in five academic years?

- A 50
- B 100
- C 90
- D 75

**Answer:** C

**Explanation:**

Total fail = 450

Average =  $450/5 = 90$

**Question 59**

The difference between the number of students passed and those who failed is the highest in which academic year?

- A 2015-2016
- B 2017-2018
- C 2016-2017
- D 2014-2015

**Answer:** A

**Explanation:**

See the difference in the peaks where it is maximum, it is most in 15-16, equals to 250.

**Instructions**

For the following questions answer them individually

**Question 60**

A number is increased by 30%, then decreased by 25%, and then further increased by 25%. What is the net increase/decrease percent in the number(correct to the nearest integer)?

- A 22% decrease
- B 22% increase
- C 21% decrease
- D 21% increase

**Answer:** B

**Explanation:**

Let the number be 100.

After it get increased by 30%, it becomes 130.

After it get decreased by 25% , it becomes  $130 - 32.5 = 97.5$

Again, increased by 25%,  $97.5 + 24.375 = 121.875 = 122$  hence 22% increase.



**Question 61**

If  $a^2 + b^2 = 88$  and  $ab = 6$ , ( $a > 0, b > 0$ ) then what is the value of  $(a^3 + b^3)$ ?

- A 820
- B 1180
- C 980
- D 1000

**Answer: A**

**Explanation:**

$$a^2 + b^2 = 88 \text{ and } ab = 6,$$

$$(a + b)^2 - 2ab = 88$$

$$(a + b)^2 = 88 + 2 \times 6$$

$$(a + b)^2 = 100$$

$$(a + b) = 10 \text{ (Square root of both sides)}$$

therefore  $(a^3 + b^3)$

$$(a + b)(a^2 - ab + b^2)$$

$$= 10 \times (88 - 6)$$

$$= 820$$

**Question 62**

In a  $\triangle ABC$ , the bisectors of  $\angle B$  and  $\angle C$  meet at point O within the triangle. If  $\angle A$  is given, then which among the given options is true ?

A  $\angle BOC = 90^\circ - (\frac{\angle A}{2})$

B  $\angle BOC = 180^\circ - (\frac{\angle A}{2})$

C  $\angle BOC = 180^\circ - (\angle A)$

D  $\angle BOC = 90^\circ + (\frac{\angle A}{2})$

**Answer: D**

**Question 63**

A circle is inscribed in a triangle ABC. It touches sides AB, BC and AC at the points P, Q and respectively. If BP = 6.5 cm, CQ = 4.5 cm and AR = 5.5 cm, then the perimeter (in cm) of the triangle  $\triangle ABC$  is:

- A 22
- B 33
- C 66
- D 16.5

**Answer: B**

**Question 64**

If a 10-digit number  $1220x558y2$  is divisible by 88, then the value of  $(x + y)$  is:

- A 11
- B 15
- C 9
- D 7

**Answer: C**

**Explanation:**

It means the whole number  $1220x558y2$  must be divided by all the multiples of 88 which are 2, 4, 8 and 11.

Check the possible values so that the whole number must be divisible by 11

$$2+8+5+0+2 = 1+2+x+5+y$$

Therefore  $x + y = 9$

**Question 65**

Two circles of radii 5 cm and 8 cm intersect at the points A and B. If  $AB = 8$  cm and the distance between the centres of two circles is  $x$  cm, then the value of  $x$  (to the closest integer) is:

- A 8
- B 10
- C 11
- D 9

**Answer: B**

**Question 66**

The simplified value of  $5 \text{ of } 8 - 6 + [(27 - 3) \div 6 - 4]$  is:

- A 120
- B 116
- C 124
- D 114

**Answer: D**

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**Question 67**

What is the area of a rhombus (in  $\text{cm}^2$ ) whose side is 10 cm and the smaller diagonal is 12 cm ?

- A 120
- B 50
- C 192

D 96

Answer: D

Explanation:

Rhombus ABCD, AB= 10cm , So BC = 10cm

Diagonal AC = 12cm

So, area( tri ABC)

=  $\sqrt{s(s-a)(s-b)(s-c)}$ , where s is semi perimeter and a,b,c are sides of the triangle

$$s = \frac{32}{2} = 16$$

$$\text{Area} = \sqrt{16 * (16 - 10)(16 - 10)(16 - 12)}$$

$$\Rightarrow \text{area} = \sqrt{16 * 6 * 6 * 4}$$

$$\Rightarrow \text{area} = \sqrt{2^2 * 2^2 * 2^2 * 3^2 * 2^2}$$

$$\Rightarrow \text{area} = 2*2*2*3*2 = 48 \text{ cm}^2$$

Area of Rhombus is  $48*2 = 96 \text{ cm}^2$

Question 68

If  $\tan x = \cot(65^\circ + 9x)$ , then what is the value of x ?

A  $1.5^\circ$

B  $2.0^\circ$

C  $1.0^\circ$

D  $2.5^\circ$

Answer: D

Explanation:

$$\tan x = \cot(65^\circ + 9x)$$

that means,

$$\cot(90^\circ - x) = \cot(65^\circ + 9x)$$

Hence,

$$(90^\circ - x) = (65^\circ + 9x)$$

$$\text{Hence, } x = 2.5^\circ$$

Question 69

10 years ago, the average age of a family of five members was 38 years. Now, two new members join, whose age difference is 8 years. If the present average age of the family is the same as it was 10 years ago, what is the age (in years) of the new younger member?

A 10

B 15

C 17

D 9

Answer: D

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### Question 70

Let  $\triangle ABC \sim \triangle PQR$  and  $\frac{ar(\triangle ABC)}{ar(\triangle PQR)} = \frac{9}{4}$ . If  $AB=9$  cm,  $BC = 6$  cm and  $AC = 12$  cm then  $QR$  is equal to:

- A 16 cm
- B 12 cm
- C 9 cm
- D 8 cm

Answer: D

### Question 71

₹60000 invested at a certain rate for a certain even number of years, compounded annually, grows to ₹63,654. To how much amount would it grow if it is invested at the same rate for half the period ?

- A ₹61809
- B ₹61827
- C ₹61800
- D ₹61675

Answer: C

### Question 72

If  $x - \frac{1}{x} = 10$ , then  $x^3 - \frac{1}{x^3}$  is equal to:

- A 1000
- B 970
- C 1030
- D 1100

Answer: C

### Explanation:

$$x - \frac{1}{x} = 10$$

Now, we have to find,

$$x^3 - \frac{1}{x^3} = (x - \frac{1}{x})(x^2 + 1 + \frac{1}{x^2})$$

Calculate,

$$x^2 + \frac{1}{x^2} = (x - \frac{1}{x})^2 + 2x \cdot \frac{1}{x}$$

$$\Rightarrow 102$$

Hence,

$$\text{result} = 10 * (102 + 1) = 1030$$

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### Question 73

A, B and C can complete a piece of work in 10, 20 and 60 days respectively. Working together, they can complete the same work in how many days ?

- A 10
- B 5
- C 6
- D 8

Answer: C

### Explanation:

A simple approach for this:

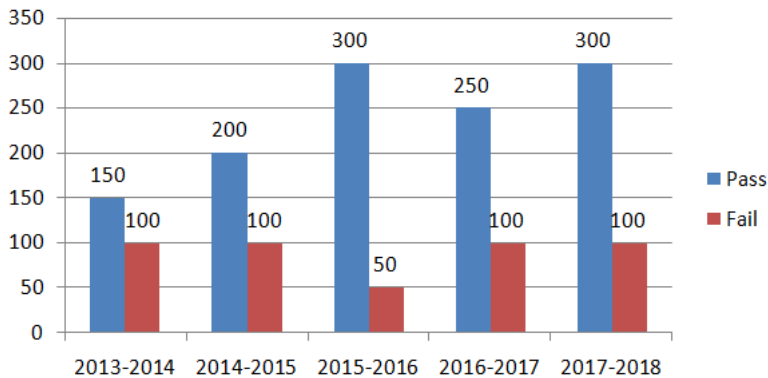
$$\frac{1}{10} + \frac{1}{20} + \frac{1}{60}$$

= 6 days

### Question 74

The given Bar Graph presents the results in terms of number of students in a school for the five academic years, 2013- 2014 to 2017-2018.

Result in a School



What is the approximate percentage of students passed during five academic years (correct to the nearest integer)?

- A 72%
- B 79%
- C 73%
- D 78%

Answer: C

### Explanation:

Pass students = 1200

Fail students = 450

Total = 1650

Pass percentage =  $\frac{1200}{1650} * 100 = 72.72\%$  Approx 73%

**Question 75**

If  $x^4 + x^{-4} = 2207$ , ( $x > 0$ ) then the value of  $x + x^{-1}$  is:

- A 19
- B 9
- C 11
- D 7

**Answer:** D

**Explanation:**

$$x^4 + x^{-4} = 2207$$

$$(x^2 + x^{-2})^2 - 2(x^2)(x^{-2}) = 2207$$

$$(x^2 + x^{-2})^2 - 2 = 2207$$

$$(x^2 + x^{-2})^2 = 2209$$

Square root of both sides,

$$(x^2 + x^{-2}) = 47$$

Again,

$$(x + x^{-1})^2 - 2(x^1)(x^{-1}) = 47$$

$$(x + x^{-1})^2 - 2 = 47$$

$$(x + x^{-1})^2 = 49$$

Square root of both sides,

$$(x + x^{-1}) = 7$$

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## English

**Instructions**

For the following questions answer them individually

**Question 76**

Select the most appropriate meaning of the given idiom.

**HEAD IN THE CLOUDS**

- A to be very lazy
- B to be very tall
- C to feel giddy
- D to daydream

**Answer:** D

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**Question 77**

Given below are four jumbled sentences. Out of the given options pick the one that gives their correct order.

- A. They have no mind of their own.
- B. It is misleading to imagine that computers can think like humans.
- C. However, they make it possible for people to accumulate thoughts.
- D. They cannot do so.

A BACD

B BDAC

C ACBD

D ABCD

**Answer: B**

**Question 78**

Select the most appropriate antonym of the given word.

**MEAGRE**

A common

B scarce

C minor

D plentiful

**Answer: D**

**Instructions**

Select the most appropriate synonym of the given word.

**Question 79**

**CANDID**

A sweet

B frank

C cruel

D arrogant

**Answer: B**

**Question 80**

**SANE**

A crazy

B foolish

C sensible

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D sensitive

Answer: C

**Instructions**

For the following questions answer them individually

**Question 81**

Select the most appropriate indirect form of the given sentence.

She said, "Deepak slipped when he was trying to skate."

A She said that Deepak was slipping when he was trying to skate.

B She said that Deepak slipped when he was trying to skate.

C She said that Deepak had slipped when he was trying to skate.

D She said that Deepak has slipped when he was trying to skate.

Answer: C

**Instructions**

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

**Comprehension:**

Agatha Christie is a well known writer of mystery books. The (1) \_\_\_\_\_ in each of her stories involves everyday characters (2) \_\_\_\_\_ we can relate to. This makes her stories more (3) \_\_\_\_\_ because whatever she writes about can happen (4) \_\_\_\_\_ any of us. What makes her stories more interesting (5) \_\_\_\_\_ the twist at the end.

**Question 82**

Select the most appropriate option to fill in blank number 1

A plot

B title

C style

D ending

Answer: A

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**Question 83**

Select the most appropriate option to fill in blank number 2

A those

B these

C that

D whose

Answer: C



**Question 84**

Select the most appropriate option to fill in blank number 3

- A artistic
- B exotic
- C realistic
- D sarcastic

**Answer: C**

**Question 85**

Select the most appropriate option to fill in blank number 4

- A to
- B from
- C by
- D on

**Answer: A**

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**Question 86**

Select the most appropriate option to fill in blank number 5

- A was
- B is
- C are
- D were

**Answer: B**

**Instructions**

For the following questions answer them individually

**Question 87**

Select the most appropriate word for the group of words.

A remedy for all diseases

- A panacea
- B antidote
- C patent
- D antibiotic

**Answer: A**

**Question 88**

Identify the most appropriate option to substitute the underlined segment. If no substitution is required, select No substitution. Those who have not received the invitation he should leave.

- A they should leave
- B he should be leaving
- C should leave
- D No substitution

**Answer: C**

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**Question 89**

Select the most appropriate word for the group of words. That which cannot be heard

- A inaudible
- B invisible
- C incredible
- D incorrigible

**Answer: A**

**Question 90**

Given below are four jumbled sentences. Out of the given options pick the one that gives their correct order.

- A. Children are the most adversely affected.
- B. Their eyesight goes weak from their very childhood.
- C. Watching television continuously is very harmful for the eyes.
- D. This debilitating effect on eyes results in severe headaches as well.

- A CABD
- B CBDA
- C ABDC
- D ACBD

**Answer: A**

**Question 91**

Identify the segment which contains the grammatical error. The number of visitors at the fair were much larger than expected.

- A visitors at the fair
- B were much larger
- C than expected

D The number of

Answer: B

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Question 92

Fill in the blank with the most appropriate word.

She kept her clothes neatly arranged in the \_\_\_\_\_.

A warehouse

B wardrobe

C larder

D godown

Answer: B

Question 93

Identify the most appropriate option to substitute the underlined segment. If no substitution is required, select No substitution.

No other man in the city is as rich than he is.

A so much rich as he

B as rich as he

C more richer than he

D No substitution

Answer: B

Question 94

Select the wrongly spelt word.

A affluence

B attendance

C affilate

D alliance

Answer: C

## SSC CHSL Important Questions and Answers (Download PDF)

Question 95

Select the most appropriate passive form of the given sentence.

How much monthly rent did you pay for the house?

A How much monthly rent was paid for the house?

B How much monthly rent is being paid for the house?

- C How much monthly rent is paid for the house?
- D How much monthly rent was being paid for the house?

Answer: A

**Question 96**

Select the most appropriate meaning of the given idiom.  
**GREEN THUMB**

- A to be envious
- B to be angry
- C to have talent in painting
- D to have talent in gardening

Answer: D

**Question 97**

Select the most appropriate antonym of the given word.  
**URBAN**

- A alien
- B modern
- C casual
- D rural

Answer: D

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**Question 98**

Select the correctly spelt word.

- A general
- B genuine
- C guilty
- D generus

Answer: B

**Question 99**

Identify the segment which contains the grammatical error.  
The soldiers had no choice when to obey the commander.

- A The soldiers
- B when to obey
- C had no choice

D the commander

Answer: B

Question 100

Fill in the blank with the most appropriate word.

The old man has lost his memory. He is suffering from \_\_\_\_\_ .

A ambrosia

B acacia

C amnesia

D anaesthesia

Answer: C

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