



## SSC CHSL 3 July 2019 Shift-3

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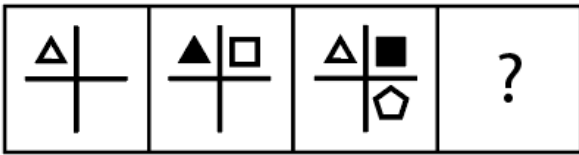
## Reasoning

### Instructions

For the following questions answer them individually

### Question 1

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



Answer: B

### Explanation:

One figure is getting added everytime with one side increasing, and the last added figure gets darked. So in the required figure hexagon gets added and the pentagon gets darked.

Hence, the correct answer is Option B

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### Question 2

The total age of a mother and her son is 60 years. The difference between their ages is 30 years. Find out the age of the mother.

A 40 years

B 45 years

C 35 years

D 50 years

**Answer: B**

**Explanation:**

Let mother be m and son be s

$$m + s = 60$$

$$m - s = 30$$

Adding both the equation we get ,

$$2m = 90, \text{ hence } m = 45$$

**Question 3**

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

A Bark

B Croak

C Larva

D Bleat

**Answer: C**

**Explanation:**

Except larva all are sounds of animals

**Question 4**

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.

Fan : Electricity

A Petrol : Fuel

B Bike : Kick

C Vehicles : Fuel

D Cooler : Water

**Answer: C**

**Explanation:**

Electricity is needed to run fan, similarly fuel is required to run vehicles.

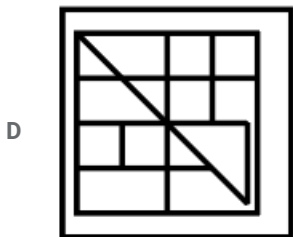
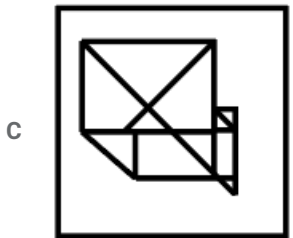
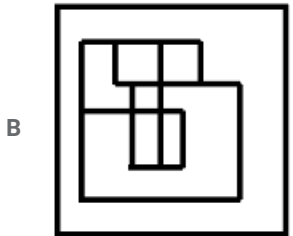
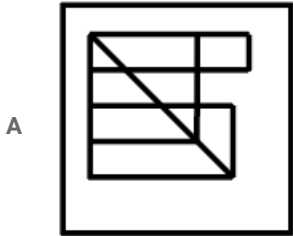
## SSC CHSL Free Mock Test

**Question 5**

Select the option in which the given figure (X) is embedded (rotation not allowed).



X



Answer: D

**Explanation:**

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



Hence, the correct answer is Option D

**Question 6**

Two statements are given, followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

**Statements:**

All breads are cakes.

All eggs are cakes.

**Conclusions:**

I. Some cakes are breads.

II. Some breads are eggs.

III. No bread is an egg.

A All the conclusions follow.

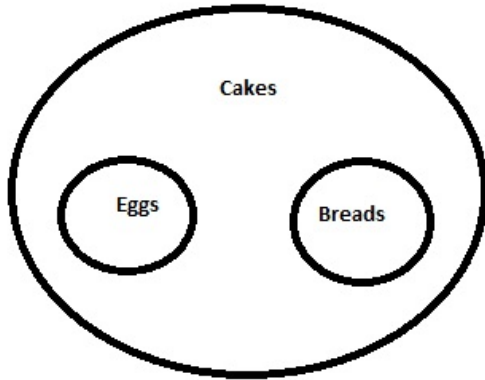
B Conclusion I and either conclusion II or III follow.

C Only conclusions I and III follow.

D Only conclusions I and II follow.

Answer: B

Explanation:



I. Some cakes are breads.-- Definitely true

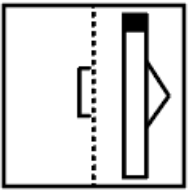
II. Some breads are eggs.-- may be true

III. No bread is an egg.-- may be true.

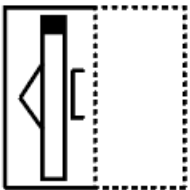
Hence i and either of ii or iii is true.

Question 7

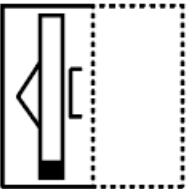
Select the option that depicts how the given transparent sheet of paper would appear if it is folded at the dotted line.



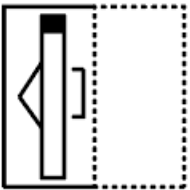
A

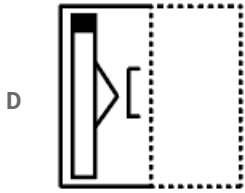


B



C





Answer: A

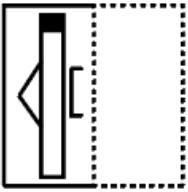
**Explanation:**

When the transparent sheet of paper is rotated to left at the dotted line, left part will remain same. The right part will be placed at the left and its facing towards right will change to left.

The triangular edge towards right will be towards left when folded.

The black part of the rectangle will same at the top.

∴ When the transparent sheet of paper is folded at the dotted line it appears as shown below



Hence, the correct answer is Option A

## SSC CHSL Previous Papers (DOWNLOAD PDF)

### Question 8

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.  
7 : 729

- A 6 : 343
- B 4 : 64
- C 8 : 1000
- D 5 : 125

Answer: C

**Explanation:**

here the first number is given and the second number is  $(firstnumber + 2)^3$  i.e. 8 and  $(8 + 2)^3 = 1000$

### Question 9

There are fourteen teams playing in a tournament. If every team plays one match with every other team, how many matches will be played in the tournament ?

- A 101
- B 91
- C 66
- D 78

Answer: B

**Question 10**

If MAGENTA is coded as 1317514201, then how will VISCOUS be coded as ?

- A 229193152119
- B 228193142118
- C 239203152219
- D 218193162018

**Answer:** A

**Explanation:**

MAGENTA is coded as 1317514201

Here the place values of alphabets are placed accordingly,

M = 13

A = 1

G = 7

E = 5

N = 14

T = 20

A = 1

By following the same pattern,

V = 22

I = 9

S = 19

C = 3

O = 15

U = 21

S = 19

⇒ VISCOUS is coded as 229193152119

Hence, the correct answer is Option A

## SSC CGL Previous Papers (DOWNLOAD PDF)

**Question 11**

Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster.

CQHL : FTEI :: OPAR : ?

- A RSXO
- B RSXP
- C YTXO
- D RTYO

**Answer:** A

**Explanation:**

CQHL : FTEI

$$C + 3 = F$$

$$Q + 3 = T$$

$$H - 3 = E$$

$$L - 3 = I$$

By applying the same pattern, we get,

$$O + 3 = R$$

$$P + 3 = S$$

$$A - 3 = X$$

$$R - 3 = O$$

$\Rightarrow$  OPAR : RSXO

Hence, the correct answer is Option A

**Question 12**

Select the letter cluster that will come next in the following series.

DOP, FPN, HQL, JRJ, ?

A KSH

B LSI

C LSH

D KTI

**Answer:** C

**Explanation:**

DOP, FPN

$$D + 2 = F$$

$$O + 1 = P$$

$$P - 2 = N$$

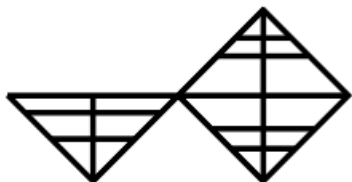
JRJ, J + 2 = L

$$R + 1 = S$$

$$J - 2 = H$$

**Question 13**

How many triangles are present in the following figure ?



A 29

B 27

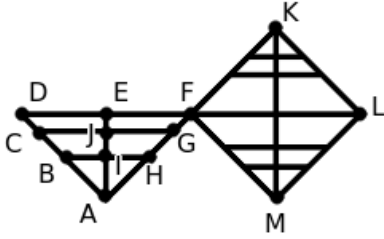
C 31

D 30



Answer: A

Explanation:



The different triangles in the figure ADF are AED, AEF, ADF, AJC, AJG, ACG, AIB, AIH, ABH

Number of triangles in the figure ADF = 9

Figures KFL and MFL are similar to figure ADF. So number of triangles in figures KFL and MFL are equal to figure ADF.

Number of triangles in the figure KFL = 9

Number of triangles in the figure MFL = 9

The remaining triangles in the given figure are KFM and KLM

Number of remaining triangles = 2

∴ Number of triangles in the given figure = 9 + 9 + 9 + 2 = 29

Hence, the correct answer is Option A

## 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.

H \_ \_ EPCK \_ \_ CDEP \_ KFHC \_ EPC \_ F

A DCFHFDD

B CDHHDCK

C CCFHKDK

D CDFHCDK

Answer: D

Explanation:

By Trial and Error method,

Option A

H D C E P C K E | H C D E P E K F | H C D E P C D F

The above letters do not form a series. Hence option A is incorrect.

Option B

H C D E P C K H | H C D E P D K F | H C C E P C K F

The above letters do not form a series. Hence option B is incorrect.

Option C

H C C E P C K E | H C D E P K K F | H C D E P C K F

The above letters do not form a series. Hence option C is incorrect.

Option D

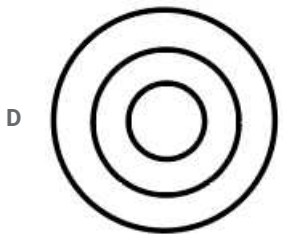
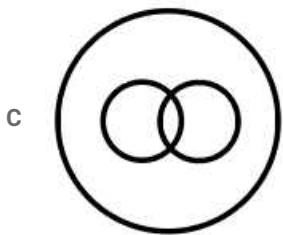
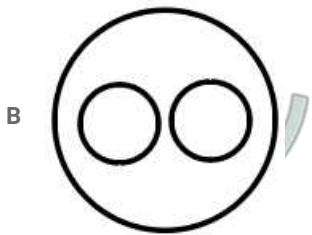
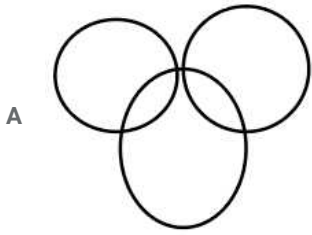
H C D E P C K E | H C D E P C K F | H C D E P C K F

The above letters form a series.

Hence, the correct answer is Option D

**Question 15**

Select the Venn diagram that best illustrates the relationship between the following classes.  
Women, Sisters, Mothers



Answer: C

**Explanation:**

Some sisters are mothers, and as a whole all belongs to women.

**Question 16**

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

A TUWZ

B BCEH

C LMPS

D KLNQ

Answer: C

**Explanation:**

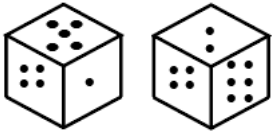
The pattern here is 1st and 4th letter, BCEH,  $B+6 = H$   $C+2 = E$

But for LMPS =  $L+7 = S$ ,  $M+3 = P$

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

Question 17

Two different positions of the same dice are shown. How many dots will be on the top if four dots are at the bottom ?



- A 2
- B 1
- C 3
- D 5

Answer: C

Explanation:

The only number that is not visible is 3 which must be opposite to that of 4.

Question 18

' $A + B$ ' means 'A is the brother of B'.

' $A - B$ ' means 'A is the husband of B'.

' $A \times B$ ' means 'A is the mother of B'.

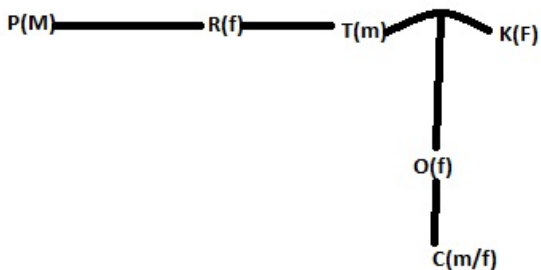
' $A \div B$ ' means 'A is the sister of B'.

If  $P + R \div T - K \times O \times C$ , then how is P related to O ?

- A Brother
- B Paternal Grandfather
- C Father
- D Paternal Uncle

Answer: D

Explanation:



Hence paternal uncle

Question 19

In a code language, ELASTIC is written as DOHVFLW. How will SMARTER be written as in that language?

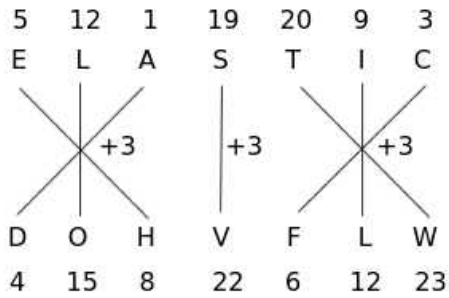
- A DOTUUHX
- B DPVTUGW
- C DPVUUHW
- D EQVUUHW

**Answer: C**

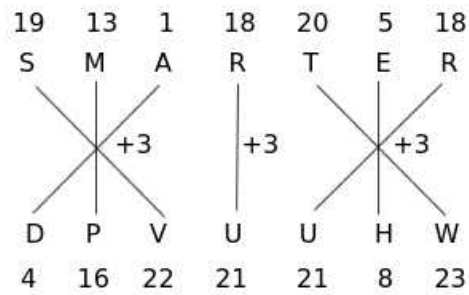
**Explanation:**

Given, ELASTIC is written as DOHVFLW in the code language

The logic here is



Similarly,



∴ SMARTER is written as DPVUUHW in the code language

Hence, the correct answer is Option C

## SSC CHSL Study Material

**Question 20**

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

$$20 + 5 \times 3 \div 3 - 1 = 14$$

- A  $\div$  and  $+$
- B  $\times$  and  $+$
- C  $\times$  and  $-$
- D  $\div$  and  $\times$

**Answer: A**

**Explanation:**

By Trial and error method,

$$20 \div 5 \times 3 + 3 - 1 = 14$$

$$4 \times 3 + 3 - 1 = 14$$

$$12 + 3 - 1 = 14$$

$$14 = 14$$

∴ By interchanging  $\div$  and  $+$  sign the given equation is correct

Hence, the correct answer is Option A

#### Question 21

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 183

B 179

C 173

D 181

Answer: A

#### Explanation:

All numbers are prime except 183

#### Question 22

In a code language, ELECTION is written as DKDBSHNM. How will EXAMPLE be written in the same language?

A DYZLOKD

B FWZLOKD

C DWZLOKF

D DWZLOKD

Answer: D

#### Explanation:

ELECTION is written as DKDBSHNM

E - 1 = D

L - 1 = K

E - 1 = D

C - 1 = B and so on.

Similarly EXAMPLE,

E = E - 1 = D

X = X - 1 = W

and So, DWZLOKD

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#### Question 23

Arrange the following in a logical and meaningful order.

1. World Cup semi-final matches
2. World Cup finals match
3. Organising the World Cup
4. Finalising the participating teams
5. Winner of the World Cup

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

**Answer: C**

**Explanation:**

Correct order:

- 4. Finalising the participating teams
- 3. Organising the World Cup
- 1. World Cup semi-final matches
- 2. World Cup finals match
- 5. Winner of the World Cup

**Question 24**

'Glaucoma' is related to 'Eyes' in the same way as 'Arthritis' is related to '\_\_\_\_\_'.  


- A Ears
- B Joints
- C Liver
- D Arteries

**Answer: B**

**Explanation:**

Glaucoma is disease of eyes, arthritis is related to joints in the same way.

**Question 25**

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

**UKR4edm8**

- A **8mbε4ЯKU**
- B **8mbε4ЯKU**
- C **8mbε4ЯKU**
- D **8mbε4ЯKU**

**Answer: D**

**Explanation:**

Flipping horizontal is allowed not flipping vertical as it is placed horizontal.

In option (a), 4 is flipped vertically

In option (b), e is flipped vertically  
In option (c), u is flipped vertically.  
The correct option is option (d)

## Daily Free SSC Practice Set

### General knowledge

#### Instructions

For the following questions answer them individually

#### Question 26

India lifted South Asian Football Federation SAFF Women's Championship for how many times in a row in March 2019 ?

- A 4<sup>th</sup>
- B 6<sup>th</sup>
- C 3<sup>rd</sup>
- D 5<sup>th</sup>

Answer: D

## Free SSC Study Material (18,000 Solved Questions)

#### Question 27

Who among the following invented the computer language, COBOL?

- A Guido van Rossum
- B Brendan Eich
- C Grace Murray Hopper
- D John McCarthy

Answer: C

#### Question 28

In the famous Rohilla War in the year 1774, the Rohillas were defeated by the Nawab of Awadh named:

- A Asif Jah Mirza
- B Shuja-ud-Daula
- C Asaf-ud-Daula
- D Yamin-ud-Daula

Answer: B

#### Question 29

The power to enquire into and decide all doubts and disputes arising out of election of the President is vested in:

- A The Supreme Court
- B The Prime Minister of India
- C The Election Commission
- D The Chairman of Rajya Sabha

**Answer: A**

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### Question 30

Second generation computers can be characterised largely by their use of \_\_\_\_\_.

- A Integrated circuits
- B Transistors
- C Microprocessors
- D Vacuum tubes

**Answer: B**

### Question 31

As of May 2019, which player has scored the most international runs in the world in all the three formats (Test Match, ODI Match and T-20 Match) of cricket combined?

- A Virat Kohli
- B Ricky Ponting
- C Don Bradman
- D Sachin Tendulkar

**Answer: D**

### Question 32

Which one of the following is a monetary principle stating that "bad money drives out good"?

- A Gresham's law
- B Pareto efficiency
- C The multiplier effect
- D Marshall's scissors analysis

**Answer: A**

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### Question 33

Which force helps swimmers float in water?



- A Muscular force
- B Magnetic force
- C Buoyant force
- D Frictional force

**Answer: C**

**Question 34**

**What is the rank of India on Human Development Index 2018?**

- A 130
- B 181
- C 21
- D 210

**Answer: A**

**Question 35**

**On which river is Polavaram irrigation project being built?**

- A Kaveri
- B Son
- C Tungabhadra
- D Godavari

**Answer: D**

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**Question 36**

**According to Census 2011, which state has the highest density of population?**

- A Maharashtra
- B West Bengal
- C Bihar
- D Uttar Pradesh

**Answer: C**

**Question 37**

**Oman author Joka Alharthi won the '2019 Man Booker International Prize' for which of the following novels?**

- A Milkman
- B The Years

C Celestial Bodies

D The Pine Islands

**Answer: C**

**Question 38**

As per the Constitution of India, Panchayats at the intermediate level may NOT be constituted in a State having a population not exceeding:

A Forty lakhs

B Twenty lakhs

C Ten lakhs

D Thirty lakhs

**Answer: B**

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**Question 39**

\_\_\_\_\_ is a metamorphic rock form characterised by banding caused by segregation of different types of rock, typically light and dark silicates.

A Quartzite

B Slate

C Gneiss

D Marble

**Answer: C**

**Question 40**

Which of the following places is famous for Chikankari embroidery?

A Indore

B Chennai

C Hyderabad

D Lucknow

**Answer: D**

**Question 41**

Which of the following is the highest award (in the order of precedence) for military services in India?

A Veer Chakra

B Ashok Chakra

C Param Vir Chakra

D Kirti Chakra

Answer: C

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### Question 42

Which country won the '2019 Sultan Azlan Shah Cup Hockey' title?

A Australia

B India

C Malaysia

D South Korea

Answer: D

### Question 43

Which is the new state bird of Andhra Pradesh declared by the State Government in June 2018?

A Black Crested Bulbul

B Rose-ringed Parrot

C Great Hornbill

D Sarus Crane

Answer: B

### Question 44

Deficiency of which of the following nutrients is the most common cause of goiters?

A Vitamin C

B Iron

C Calcium

D Iodine

Answer: D

## SSC CHSL Free Mock Test

### Question 45

To which state does the traditional folk dance 'Gotipua' belong?

A Chhattisgarh

B West Bengal

C Bihar

D Odisha

Answer: D

**Question 46**

**Kolleru Lake which is one of the largest freshwater lakes in India is located in which state?**

A Jammu & Kashmir

B Manipur

C Andhra Pradesh

D Rajasthan

Answer: C

**Question 47**

**Who was recently elected as the President of Indonesia for the second term?**

A Abdurrahman Wahid

B Megawati Sukarnoputri

C Joko Widodo

D Susilo Bambang Yudhoyono

Answer: C

## SSC CHSL Previous Papers (DOWNLOAD PDF)

**Question 48**

**Who among the following was awarded the third Sayaji Ratna Award in November 2018 which has been established in the memory of erstwhile Baroda ruler Sayajirao Gaekwad III ?**

A Shiv Nadar

B Azim Premji

C Mohanlal

D Amitabh Bachchan

Answer: D

**Question 49**

**Which day has been proclaimed as The International Day for Biological Diversity (IDB) to increase understanding and awareness of biodiversity issues by The United Nations?**

A 24 Apr

B 18 Oct

C 22 May

D 10 November

Answer: C

Question 50

Which emperor's army did Maharana Pratap fight in the Battle of Haldighati ?

- A Ibrahim Lodi
- B Mahmud Shah
- C Akbar
- D Humayun

Answer: C

SSC CGL Previous Papers (DOWNLOAD PDF)

Quant

Instructions

For the following questions answer them individually

Question 51

If a 10-digit number 46789x531y is divisible by 72, then the value of  $(2x + 5y)$ , for the largest value of x is:

- A 10
- B 38
- C 28
- D 16

Answer: C

Explanation:

46789x531y is divisible by 72 only if it is divisible by all the multiples of 72 i.e 2,4,8,9

To make it divisible by 8, y should be 2, to make the highest possible value of x, x should be 9. Hence  $2x + 5y = 18 + 10 = 28$

SSC CGL Free Mock Test (Latest Pattern)

Question 52

The compound interest on a certain sum for 3 years at 15% p.a., interest compound yearly, is ₹4167. What is the simple interest on the same sum in  $4\frac{4}{5}$  years at the same rate ?

- A ₹5760
- B ₹4800
- C ₹6144
- D ₹6000

Answer: A

Explanation:

$$C.I = P \left(1 + \frac{r}{100}\right)^n - P$$

$$4167 = P \left(1 + \frac{15}{100}\right)^3 - P$$

$$4167 = P \left(\frac{23}{20} \times \frac{23}{20} \times \frac{23}{20}\right) - P$$

$$4167 = P \left(\frac{12167}{8000} - 1\right)$$

$$4167 = P \left(\frac{4167}{8000}\right)$$

$$P = 8000$$

$$\text{Now, } P = 8000, T = \frac{24}{5} \text{ years, } R = 15\%$$

$$S.I = \frac{P \times T \times R}{100}$$

$$= \frac{8000 \times 24 \times 15}{100 \times 5} = 5760.$$

### Question 53

The value of  $\frac{4 \tan^2 30^\circ + \frac{1}{4} \sin^2 90^\circ + \frac{1}{8} \cot^2 60^\circ + \sin^2 30^\circ \cos^2 45^\circ}{\sin 60^\circ \cos 30^\circ - \cos 60^\circ \sin 30^\circ}$  is:

A  $1\frac{3}{4}$

B  $2\frac{1}{2}$

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

D 4

Answer: C

### Question 54

If  $x + y + z = 19$ ,  $x^2 + y^2 + z^2 = 133$ , then the value of  $x^3 + y^3 + z^3 - 3xyz$  is:

A 361

B 352

C 380

D 342

Answer: A

Explanation:

$$(x + y + z) = 19$$

Squaring both side,

$$(x + y + z)^2 = 19^2$$

$$x^2 + y^2 + z^2 + 2(xy + yz + xz) = 361$$

$$133 + 2(xy + yz + xz) = 361$$

$$(xy + yz + xz) = 114$$

$$x^3 + y^3 + z^3 - 3xyz = (x + y + z)(x^2 + y^2 + z^2 - xy - yz - xz)$$

$$x^3 + y^3 + z^3 - 3xyz = 19(133 - 114) = 361.$$

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

**Question 55**

In a class of 80 students, the ratio of the urban to the rural is 5 : 3. In a test, the average score of the rural students is 40% more than that of the urban students. If the average score of all the students is 69, then what is the average score of the rural students ?

- A 76
- B 92
- C 80
- D 84

**Answer: D**

**Explanation:**

Total score of the class =  $69 \times 80 = 5520$

Let the average score of urban students be  $x$  then average score of rural students =  $\frac{140x}{100} = \frac{7x}{5}$

Now,

$$50x + 30 \times \frac{7x}{5} = 5520$$

$$92x = 5520$$

$$x = \frac{5520}{92} = 60$$

Hence, average score of rural students =  $60 \times \frac{7}{5} = 84$ .

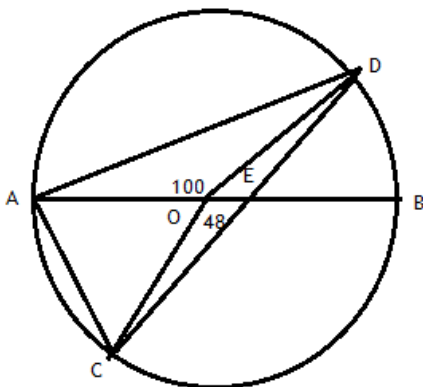
**Question 56**

In a circle with centre O, a diameter AB and a chord CD intersect each other at E, AC and AD are joined. If  $\angle BOC = 48^\circ$  and  $\angle AOD = 100^\circ$ , then what is the measure of  $\angle CEB$  ?

- A  $82^\circ$
- B  $74^\circ$
- C  $72^\circ$
- D  $78^\circ$

**Answer: B**

**Explanation:**



Angle BOC =  $48^\circ$  so, Angle BAC =  $24^\circ$  (The angle subtended at the centre is twice to that of angle subtended at the circumference by the same arc)

Angle AOD =  $100^\circ$  so, Angle ACE =  $50^\circ$  (The angle subtended at the centre is twice to that of angle subtended at the circumference by the same arc)

In triangle ACE,

Angle AEC =  $180 - (50 + 24) = 106$

So, angle CEB =  $180 - 106 = 74$  degrees (Straight line is 180 degrees).

**Question 57**

18 men can complete a work in 9 days. After they have worked for 5 days, 6 more men join them. How many days will they take to complete the remaining work ?

A  $2\frac{1}{2}$

B 2

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

D 3

**Answer: D**

**Explanation:**

Total number of work =  $18 \times 9 = 162$  units

Number of work done in 5 days by 18 men =  $18 \times 5 = 90$  units

Remaining work =  $162 - 90 = 72$  units

Now required days to complete 72 units =  $\frac{72}{24} = 3$  days.

## SSC CHSL Study Material

**Question 58**

A man gets a discount of 30% and then 20% on his food bill of ₹1,250. How much amount does he have to pay?

A ₹350

B ₹550

C ₹500

D ₹700

**Answer: D**

**Explanation:**

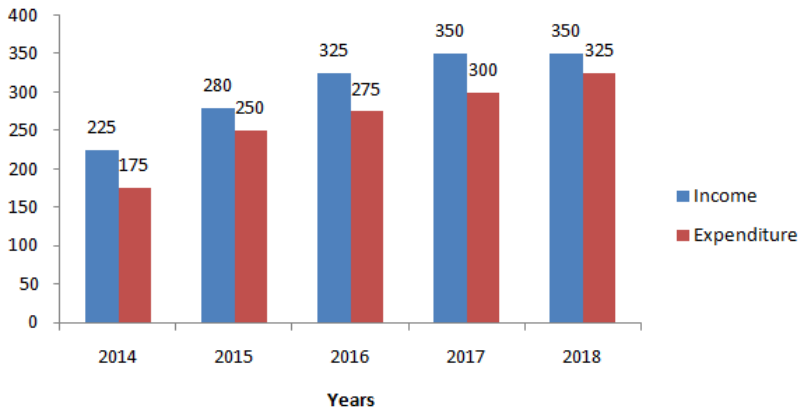
Amount he has to pay =  $\frac{70}{100} \times \frac{80}{100} \times 1250 = 700$ .



Question 59

The given Bar Graph presents Income and Expenditure (in crores of Rupees) of a company for the five years, 2014 to 2018.

Income and Expenditure (in ₹ crores) of a company in 5 Years



What is the ratio of total Expenditure to total Income of the company in 2014, 2016 and 2017 ?

- A 3:4
- B 5:6
- C 13:18
- D 15:16

Answer: B

Explanation:

Required ratio =  $(175+275+300) : (225+325+350) = 750 : 900 = 5:6$ .

Question 60

In a  $\triangle ABC$ , D and E are two points on sides AB and BC, respectively such that  $AD : DB = 2 : 3$  and  $DE \parallel AC$ . If the area of  $\triangle ADE$  is equal to  $18 \text{ cm}^2$ , then what is the area (in  $\text{cm}^2$ ) of  $\triangle ABC$  ?

- A 54
- B 40.5
- C 75
- D 45

Answer: C

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Question 61

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

- A 6 cm
- B 9 cm
- C 12 cm
- D 15 cm

Answer: A

**Explanation:**

If two triangles are similar, then the ratio of the area of both triangles is proportional to the square of the ratio of their corresponding sides.

$$\frac{\text{ar}(\triangle ABC)}{\text{ar}(\triangle PQR)} = \frac{AC^2}{QR^2}$$

$$\frac{9}{4} = \frac{81}{QR^2}$$

$$QR=6.$$

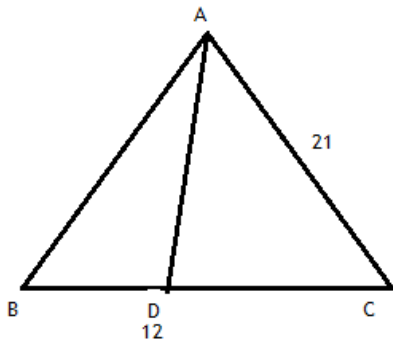
**Question 62**

In  $\triangle ABC$ , AD is the bisector of  $\angle BAC$ , meeting BC at D. If AC = 21 cm, BC = 12 cm and the length of BD is 2 cm less than DC, then the length of side AB is:

- A 18 cm
- B 14 cm
- C 15 cm
- D 10 cm

Answer: C

**Explanation:**



$$BC = 12$$

$$\text{Let } DC = x \text{ then } BD = x - 2$$

$$x + x - 2 = 12$$

$$x = 7$$

$$BD = 5 \text{ and } DC = 7$$

By angle bisector theorem,

$$\frac{AB}{AC} = \frac{BD}{DC}$$

$$\frac{AB}{21} = \frac{5}{7}$$

$$AB = 15 \text{ cm}$$

**Question 63**

If  $8(x + y)^3 - (x - y)^3 = (x + 3y)(Ax^2 + Bxy + Cy^2)$ , then the value of (A - B - C) is:

- A 14
- B -6
- C -2

D 10

Answer: C

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### Question 64

An article is sold for ₹360 after allowing discount of 20% on its marked price. Had the discount not been allowed, the profit would have been 50%. The cost price of the article is:

A ₹300

B ₹350

C ₹320

D ₹ 360

Answer: A

**Explanation:**

$$\text{Hence, M.P.} = \frac{360}{80} \times 100 = 450$$

Now S.P = 450 and Profit = 50%

$$\text{C.P} = \frac{100}{150} \times 450 = 300$$

hence cost price of article = Rs 300.

### Question 65

If  $9a^2 + 16b^2 + c^2 + 25 = 24(a + b)$ , then the value of  $(3a + 4b + 5c)$  is:

A 7

B 10

C 6

D 9

Answer: A

**Explanation:**

$$9a^2 + 16b^2 + c^2 + 25 = 24(a + b)$$

$$9a^2 + 16b^2 + c^2 + 25 - 24a - 24b = 0$$

$$9a^2 + 16 - 24a + 16b^2 + 9 - 24b + c^2 = 0$$

$$(3a - 4)^2 + (4b - 3)^2 + c^2 = 0$$

$$\text{So, } 3a = 4, 4b = 3, c = 0$$

$$(3a + 4b + 5c) = 4 + 3 + 0 = 7.$$

### Question 66

Two trains of equal length travelling in opposite directions at 72 km/h and 108 km/h cross each other in 10 seconds. In how much time (in seconds) does the first train cross a platform of length 350 m?

A 30

B 24

C 32

D 36

Answer: A

Explanation:

$$\text{Relative speed} = 72 + 108 = 180 \text{ kmph} = 180 \times \frac{5}{18} = 50 \text{ m/sec}$$

$$\text{Distance} = \text{Distance} = \text{Speed} \times \text{Time} = 50 \times 10 = 500 \text{ m}$$

$$\text{Length of each train} = \frac{500}{2} = 250 \text{ m}$$

$$\text{Time taken to cover platform} = \frac{250+350}{20} = 30 \text{ s}$$

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Question 67

An article is sold for ₹x. If it is sold at  $33\frac{1}{3}\%$  of this price, there is a loss of 20%. What is the percentage profit when it is sold for ₹x ?

A 125

B 120

C 140

D 130

Answer: C

Explanation:

Let the value of Rs x be Rs 100

$$\text{Then S.P} = \frac{100}{3} \% \text{ of } 100 = \frac{100}{3}$$

Loss = 20%

$$\text{C.P} = \left\{ \frac{100}{80} \times \frac{100}{3} = \frac{125}{3} \right\}$$

Now new S.P = Rs 100 and C.P =  $\frac{125}{3}$

$$\text{Profit} = 100 - \frac{125}{3} = \frac{175}{3}$$

$$\text{Profit\%} = \frac{175}{3} \times 100 \times \frac{3}{125} = 140\%$$

Question 68

If  $\tan x = \cot(60^\circ + 6x)$ , then what is the value of x ?

A  $\frac{30^\circ}{7}$

B  $\frac{15^\circ}{2}$

C  $10^\circ$

D  $12^\circ$

Answer: A

Explanation:

$$\tan x = \cot(60^\circ + 6x)$$

$$\cot(90^\circ - x) = \cot(60^\circ + 6x)$$

$$7x = 30^\circ$$

$$x = \frac{30^\circ}{7}$$

**Question 69**

If  $\left(\frac{1}{1 + \operatorname{cosec} \theta} - \frac{1}{1 - \operatorname{cosec} \theta}\right) \cos \theta = 2$ ,  $0^\circ < \theta < 90^\circ$ , then the value of  $\sin^2 \theta + \cot^2 \theta + \sec^2 \theta$  is:

- A  $\frac{1}{2}$
- B 1
- C 2
- D  $\frac{1}{2}$

Answer: A

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**Question 70**

What is the simplified value of  $5 \div 10$  of  $10 \times 4 + 4 \div 4$  of  $4 \times 10 - (10 - 4) \div 16 \times 4 = ?$

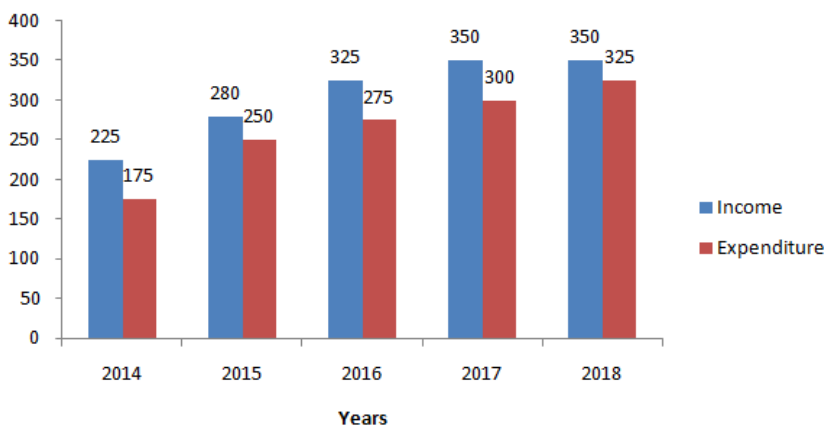
- A 21
- B 58.5
- C 2.5
- D 1.2

Answer: D

**Question 71**

The given Bar Graph presents Income and Expenditure (in crores of Rupees) of a company for the five years, 2014 to 2018.

**Income and Expenditure (in ₹ crores) of a company in 5 Years**



In which year is the Expenditure more than 40% as compared to the Expenditure in the previous year?

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

Answer: A

**Explanation:**

It is clear from the figure that only one year can qualify for that value. Lets check for 2015

$\frac{75}{175}$  that is coming 42 %

**Question 72**

The price of an article increases by 20% every year. If the difference between the prices at the end of third and fourth years is ₹259.20, then 40% of the price (in ₹) at the end of second year is:

- A 432
- B 484
- C 472
- D 384

Answer: A

## SSC Exam Update Videos & Free Study Material (YouTube Channel)

**Question 73**

The length of a rectangular park is 20 m more than its breadth. If the cost of fencing the park at ₹53 per metre is ₹21200, then what is the area (in m<sup>2</sup>) of the park ?

- A 8925
- B 9240
- C 9504
- D 9900

Answer: D

**Explanation:**

the cost of fencing the park at ₹53 per metre is ₹21200

therefore perimeter =  $21200/53 = 400$

Length =  $20 + x$ , breadth =  $x$

By the problem,

$$2(20 + x + x) = 400,$$

$$20 + 2x = 200$$

$$2x = 180$$

$$x = 90$$

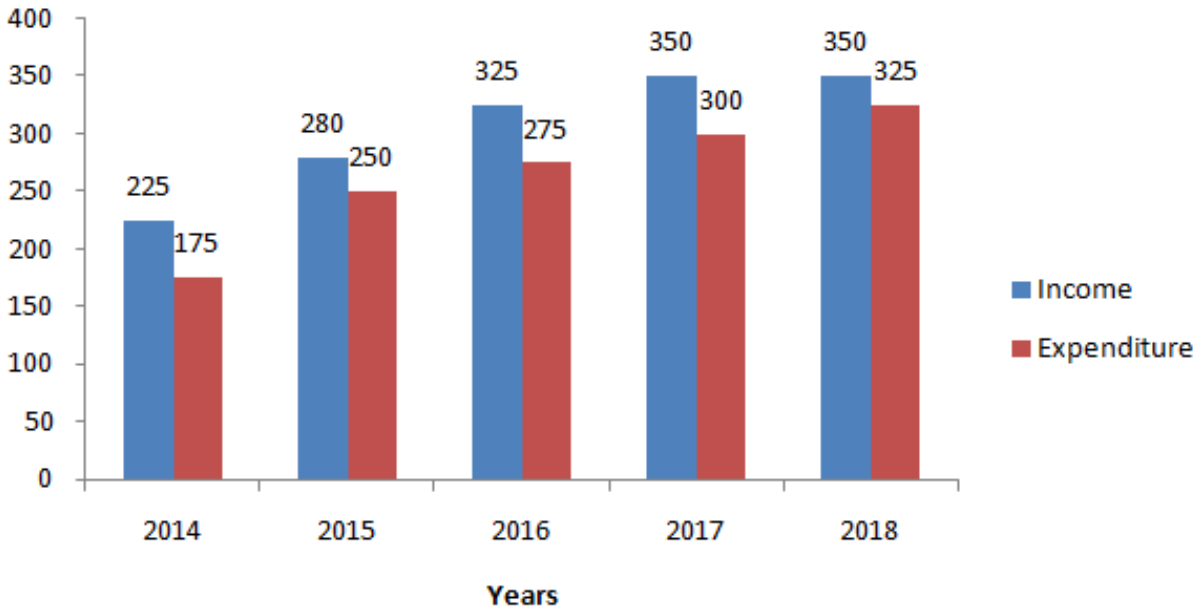
$$\text{Length} = 110$$

$$\text{Hence Area } 110 * 90 = 9900$$

**Instructions**

The given Bar Graph presents Income and Expenditure (in crores of Rupees) of a company for the five years, 2014 to 2018.

### Income and Expenditure (in ₹ crores) of a company in 5 Years



**Question 74**

The total Income of the company in 2015, 2017 and 2018 is approximately what percent less than the total Expenditure in the five years ?

- A 22
- B 21
- C 26
- D 24

**Answer: C**

**Explanation:**

The total Income of the company in 2015, 2017 and 2018 is 980

the total Expenditure in the five years 1325

Hence percentage less  $\frac{1325-980}{1325} \times 100 = \frac{345}{1325} \times 100 = 26\%$

**Question 75**

The average Income(per year) of the company in five years is what percentage more than its Expenditure in 2015 ?

- A 20.8
- B 22.4
- C 24.2
- D 24.6

**Answer: B**

**Explanation:**

income =  $1530/5 = 306$

Expenditure = 250 in 2015.

Percentage more =  $\frac{306-250}{250} \times 100 = \frac{56}{250} \times 100 = 22.4\%$

English

Instructions

For the following questions answer them individually

Question 76

Select the most appropriate meaning of the given idiom.

Mad as a hatter

- A very upset
- B old fashioned
- C eccentric
- D superstitious

Answer: C

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Question 77

Select the word which means the same as the group of words given.

The study of human history and prehistory through the excavation of sites

- A geology
- B anthropology
- C psephology
- D archaeology

Answer: D

Question 78

Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select No improvement.

The civic bodies in the capital have formed teams to crack down on coaching centres found violated a law.

- A found to violated a law
- B finding to violate the law
- C found violating the law
- D No improvement

Answer: C

Question 79

Select the most appropriate meaning of the given idiom.

Going over one's head

- A something one didn't expect



- B unable to function as one used to
- C beyond one's capacity to understand
- D unable to take a decision

Answer: C

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### Question 80

Select the wrongly spelt word.

- A resembel
- B require
- C reverse
- D reproduce

Answer: A

### Question 81

Select the most appropriate word to fill in the blank.

The prisoner held up his fist in a defiant \_\_\_\_\_ as he was led out of the courtroom.

- A wave
- B token
- C salute
- D gesture

Answer: D

### Question 82

In the sentence identify the segment which contains the grammatical error.

Mrs. Sangeeta Malik is one of the favourite teacher of most children in our school.

- A of most children
- B Mrs. Sangeeta Malik is
- C in our school
- D one of the favourite teacher

Answer: D

## SSC CHSL Free Mock Test

### Question 83

Select the most appropriate antonym of the given word.

RESERVED

- A modest
- B communicative
- C quiet
- D placid

Answer: B

**Question 84**

Select the most appropriate synonym of the given word.  
**HANDY**

- A hard
- B convenient
- C useless
- D clumsy

Answer: B

**Question 85**

Select the most appropriate synonym of the given word.  
**THWART**

- A aid
- B support
- C face
- D impede

Answer: D

## SSC CHSL Previous Papers (DOWNLOAD PDF)

### 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:

Every morning, nine-year old Khushi becomes guardian to her five-year old sister Ankita as (1) \_\_\_\_\_ hold hands and cross the railway tracks to (2) \_\_\_\_\_ the school. The sisters leave home (3) \_\_\_\_\_ 7 am with school bags larger (4) \_\_\_\_\_ their torsos. The 2 km route they walk on foot to reach school (5) \_\_\_\_\_ includes walking past a railway crossing and through the lanes of an industrial area used by mini trucks and carrier vehicles.

**Question 86**

Select the most appropriate option for blank No. 1.

- A them
- B she
- C they

D we

Answer: C

Question 87

Select the most appropriate option for blank No. 2.

A come

B reach

C go

D arrive

Answer: B

Question 88

Select the most appropriate option for blank No. 3.

A from

B on

C at

D in

Answer: C

## SSC CGL Previous Papers (DOWNLOAD PDF)

Question 89

Select the most appropriate option for blank No. 4.

A with

B than

C to

D from

Answer: B

Question 90

Select the most appropriate option for blank No. 5.

A evenly

B daily

C hardly

D widely

Answer: B

**Instructions**

For the following questions answer them individually

**Question 91**

Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select No improvement.

The Urban Art Commission has suggested that the landscape be developing by adding water fountains around the sculpture.

- A to be developed by
- B No improvement
- C be developed by
- D be developed with

**Answer: C**

## SSC CGL Free Mock Test (Latest Pattern)

**Question 92**

Select the word which means the same as the group of words given.

An instrument used for measuring atmospheric pressure

- A voltmeter
- B thermometer
- C barometer
- D altimeter

**Answer: C**

**Question 93**

Select the wrongly spelt word.

- A nerve
- B neglect
- C nerveous
- D negative

**Answer: C**

**Question 94**

Select the most appropriate antonym of the given word.

**INSTANT**

- A immediate
- B current
- C delayed
- D quick

Answer: C

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

### Question 95

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

- A. At this speed the rocket soon attained the height of 190 miles above the earth.
- B. At 9 am the great rocket lifted in the air with a mighty roar.
- C. It rose smoothly at first, then quickened to a speed of 17,500 miles an hour.
- D. Gagarin now pulled himself towards the window to look down.

- A ADBC
- B BADC
- C CBAD
- D BCAD

Answer: D

### Question 96

Select the correct passive form of the given sentence.

The new gardener looks after the plants well.

- A The plants are looked after well by the new gardener.
- B The plants were looked after well by the new gardener.
- C The new gardener is looked after well by the plants.
- D The plants looked after well by the new gardener.

Answer: A

### Question 97

Select the correct indirect form of the given sentence.

Father said to me, "Are you going to keep me waiting all night?"

- A Father told me that you are going to keep him waiting all night.
- B Father asked me if you were going to keep him waiting all night.
- C Father asked me are you going to keep me waiting all night.
- D Father asked me if I was going to keep him waiting all night.

Answer: D

## SSC CHSL Study Material

### Question 98

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

- A. The subjects taught in the Gurukul varied from Sanskrit to Mathematics.
- B. Indian education has its roots in the ancient ages.
- C. However this system changed when the British came to India.
- D. In those days the Gurukul system was followed.

- A BDAC
- B DCAB
- C CBAD
- D BCAD

Answer: A

**Question 99**

Select the most appropriate word to fill in the blank.  
In view of his transfer to a far off place, he had to \_\_\_\_\_ his promotion.

- A claim
- B forgo
- C resign
- D assert

Answer: B

**Question 100**

In the sentence identify the segment which contains the grammatical error.  
I expect to return from Singapore during about a week's time.

- A from Singapore
- B during about
- C a week's time
- D I expect to return

Answer: B

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