



## SSC CHSI 14 March 2018 Morning Shift

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**Instructions**

For the following questions answer them individually

**Question 1**

What least number can be multiplied by 165375 to make it a perfect cube?

- A 2
- B 5
- C 7
- D 49

**Answer: C**

**Explanation:**

Prime factorisation of  $165375 = 3^3 \times 5^3 \times 7^2$

Now, the exponents of 3 and 5 are divisible by 3 (for perfect cube) and we need one more '7' so that exponent of 7 can also get divisible by 3.

=> 165375 should be multiplied by 7 to make it a perfect cube.

=> Ans - (C)

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**Question 2**

Find the sum of  $0.99995 + 0.88885 + 0.77775 + 0.66665 + 0.55555$

- A 3.88875
- B 2.88875
- C 3.6875
- D 2.9875

**Answer: A**

**Explanation:**

Expression :  $0.99995 + 0.88885 + 0.77775 + 0.66665 + 0.55555$

= **3.88875**

=> Ans - (A)

**Question 3**

If  $X + \frac{4}{X} = 4$ , then find the value of  $X^6 + 1$ .

- A 51
- B 65
- C 78
- D 82

**Answer: B**

**Explanation:**

$$\text{Expression : } X + \frac{4}{X} = 4$$

$$\Rightarrow \frac{x^2+4}{x} = 4$$

$$\Rightarrow x^2 - 4x + 4 = 0$$

$$\Rightarrow (x - 2)^2 = 0$$

$$\Rightarrow x - 2 = 0$$

$$\Rightarrow x = 2$$

$$\therefore X^6 + 1 = (2)^6 + 1$$

$$= 64 + 1 = 65$$

$\Rightarrow$  Ans - (B)

**Question 4**

If  $Y:X:Z=4:5:6$ , then find the value of  $\frac{X-Y+Z}{X+Y-Z}$ .

A  $\frac{3}{3}$

B  $\frac{3}{7}$

C  $\frac{5}{7}$

D  $\frac{7}{3}$

**Answer: D**

**Explanation:**

$$\text{Given } = Y : X : Z = 4 : 5 : 6$$

$$\text{Let } X = 5, Y = 4 \text{ and } Z = 6$$

$$\text{To find : } \frac{X-Y+Z}{X+Y-Z}$$

$$= \frac{5-4+6}{5+4-6} = \frac{7}{3}$$

$\Rightarrow$  Ans - (D)

## SSC CHSL Free Mock Test

**Question 5**

If the length of the three sides of a triangle is 5 cm, 12 cm and 13 cm respectively, then calculate the length (in cm) of the median of side AC of the given triangle.

A 5

B 6

C 6.5

D 7

**Answer: C**

**Explanation:**

Sides of triangle = 5, 12 and 13 cm

Clearly, the given angle is a right angled triangle,  $\therefore (13)^2 = (5)^2 + (12)^2$ , where length of hypotenuse = 13 cm

Also, in a right angled triangle, length of median = half of hypotenuse

$$\Rightarrow \text{Median} = \frac{1}{2} \times 13 = 6.5 \text{ cm}$$

$\Rightarrow$  Ans - (C)

### Question 6

What will be the value of the angle (in degrees) subtended by the chord in the minor segment of the circle, if the length of a chord is equal to the radius of the circle?

A  $120^\circ$

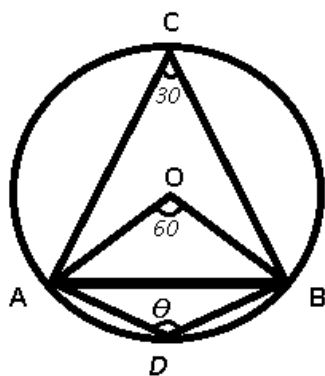
B  $150^\circ$

C  $160^\circ$

D  $180^\circ$

Answer: B

Explanation:



Given : Radius and the chord of the circle are equal in length.

To find :  $\angle ADB = \theta = ?$

Solution : It is given that the radius and the chord of the circle are equal in length.

$$\Rightarrow OA = OB = AB$$

$\Rightarrow$  AOB is an equilateral triangle,  $\Rightarrow \angle AOB = 60^\circ$

Now, the angle subtended by an arc at the centre is double the angle subtended by it at any point on the circle.

$$\Rightarrow \angle ACB = \frac{60}{2} = 30^\circ$$

Quadrilateral AD BC is a cyclic quadrilateral where sum of opposite angles =  $180^\circ$

$$\Rightarrow \angle ACB + \angle ADB = 180^\circ$$

$$\Rightarrow 30^\circ + \theta = 180^\circ$$

$$\Rightarrow \theta = 180^\circ - 30^\circ = 150^\circ$$

$\Rightarrow$  Ans - (B)

### Question 7

What is the value of 30% of 125 + 45% of 300?

A 165

B 172.5

C 155

D 163.5

Answer: B

Explanation:

Expression : 30% of 125 + 45% of 300

$$= \left(\frac{30}{100} \times 125\right) + \left(\frac{45}{100} \times 300\right)$$

$$= 37.5 + 135 = 172.5$$

=> Ans - (B)

## SSC CHSL Previous Papers (DOWNLOAD PDF)

Question 8

If  $A : B = 5 : 3$ , then what is the value of  $(A + B) : (A - B)$ ?

A 4 : 1

B 2 : 1

C 4 : 3

D 8 : 3

Answer: A

Explanation:

Given =  $A : B = 5 : 3$

Let  $A = 5$  and  $B = 3$

To find =  $(A + B) : (A - B)$

$$= \frac{(5+3)}{(5-3)}$$

$$= \frac{8}{2} = 4$$

$$\therefore (A + B) : (A - B) = 4 : 1$$

=> Ans - (A)

Question 9

How many kg of rice at Rs 54 per kg must be mixed with 30 kg of rice at Rs 40 per kg, so that on selling the mixture at Rs 48.4 per kg, there will be a profit of 10%?

A 22

B 18

C 15

D 12

Answer: D

Explanation:

Let  $x$  kg of rice at Rs 54 per kg must be mixed.

Selling price of final mixture = Rs. 48.4/kg at 10% profit

$$\Rightarrow \text{Cost price of final mixture} = \frac{48.4}{(100+10)} \times 100 = \text{Rs. } 44$$

According to ques,

$$\Rightarrow (54 \times x) + (30 \times 40) = 44 \times (x + 30)$$

$$\Rightarrow 54x + 1200 = 44x + 1320$$

$$\Rightarrow 54x - 44x = 1320 - 1200$$

$$\Rightarrow 10x = 120$$

$$\Rightarrow x = \frac{120}{10} = 12 \text{ kg}$$

$\Rightarrow$  Ans - (D)

#### Question 10

The average weight of X, Y and Z is 35 kg. If the average weight of X and Y is 33 kg and that of Y and Z is 29 kg, then what is the weight (in kg) of Y?

A 19

B 23.5

C 27

D 37

Answer: A

#### Explanation:

Let weight of X, Y and Z be  $x, y, z$  kg respectively.

$$\text{Average weight of X, Y and Z} = \frac{(x+y+z)}{3} = 35$$

$$\Rightarrow x + y + z = 35 \times 3 = 105 \text{ -----(i)}$$

$$\text{Also, average weight of X and Y} = \frac{(x+y)}{2} = 33$$

$$\Rightarrow x + y = 66 \text{ -----(ii)}$$

$$\text{Similarly, } y + z = 58 \text{ -----(iii)}$$

$$\text{Adding equations (ii) and (iii), } \Rightarrow x + 2y + z = 124 \text{ -----(iv)}$$

Subtracting equation (i) from (iv), we get :

$$\Rightarrow y = 124 - 105 = 19$$

$\therefore$  Weight of Y = 19 kg

$\Rightarrow$  Ans - (B)

## SSC CGL Previous Papers (DOWNLOAD PDF)

#### Question 11

Some part of Rs.9500 was lent at the rate of 15% per annum simple interest and the remaining part at the rate of 20% per annum simple interest. The total interest received after  $\frac{3}{2}$  years is Rs.2565. What is the ratio of money lent at the rate of 15% and 20%?

A 11 : 8

B 12 : 7

C 2 : 3

D 5 : 4

Answer: C

#### Explanation:

Let sum lent for 15% = Rs.  $100x$  and sum lent for 20% = Rs.  $(9500 - 100x)$

Time period =  $\frac{3}{2} = 1.5$  years

=> Simple interest =  $\frac{P \times R \times T}{100}$

According to ques,

$$\Rightarrow \frac{100x \times 15 \times 1.5}{100} + \frac{(9500 - 100x) \times 20 \times 1.5}{100} = 2565$$

$$\Rightarrow 22.5x + (95 - x) \times 30 = 2565$$

$$\Rightarrow 22.5x + (95 \times 30) - 30x = (95 \times 27)$$

$$\Rightarrow -7.5x = 95(27 - 30)$$

$$\Rightarrow x = \frac{95 \times 3}{7.5} = 38$$

$$\therefore \text{Required ratio} = \frac{100 \times 38}{9500 - (100 \times 38)}$$

$$= \frac{3800}{5700} = 2 : 3$$

=> Ans - (C)

### Question 12

If 80% of total articles are sold at a loss of 15% and remaining articles are sold at a profit of 15%, then what will be the overall loss percentage?

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

Answer: C

### Explanation:

Let total number of articles be 100 and price of each article = Re. 1

=> Total cost price of 100 articles = Rs. 100

Number of articles sold at 15% loss =  $\frac{80}{100} \times 100 = 80$

Selling price of 80 articles =  $80 - \left(\frac{15}{100} \times 80\right) = \text{Rs. } 68$

=> Number of articles sold at 15% profit =  $100 - 80 = 20$

Selling price of 20 articles =  $20 + \left(\frac{15}{100} \times 20\right) = \text{Rs. } 23$

Thus, total selling price of 100 articles = Rs.  $(68 + 23) = \text{Rs. } 91$

$$\therefore \text{Overall loss \%} = \frac{(100 - 91)}{100} \times 100 = 9\%$$

=> Ans - (C)

### Question 13

If three successive discounts of 10%, 15% and 30% are given, then what will be the net discount (in percentage)?

- A 53.15
- B 55
- C 46.45
- D 43.45

Answer: C

**Explanation:**

Let marked price = Rs. 100

$$\text{After 1st discount of 10\%, price} = 100 - \left(\frac{10}{100} \times 100\right)$$

$$= 100 - 10 = 90$$

$$\text{After 2nd discount of 15\% (on changed price), selling price} = 90 - \left(\frac{15}{100} \times 90\right)$$

$$= 90 - 13.5 = \text{Rs. } 76.5$$

$$\text{After 3rd discount of 30\%, net selling price} = 76.5 - \left(\frac{30}{100} \times 76.5\right)$$

$$= 76.5 - 22.95 = \text{Rs. } 53.55$$

$$\therefore \text{Net discount} = \frac{(100 - 53.55)}{100} \times 100 = 46.45\%$$

=> Ans - (C)

## SSC CGL Free Mock Test (Latest Pattern)

**Question 14**

Which of the following statement(s) is/are TRUE ?

I.  $\sqrt{324} + \sqrt{3.24} + \sqrt{0.0324} = 19.98$

II.  $\sqrt{129} + \sqrt{121} + \sqrt{361} + \sqrt{100} = 13$

A Only I

B Only II

C Neither I nor II

D Both I and II

Answer: D

**Explanation:**

I:  $\sqrt{324} + \sqrt{3.24} + \sqrt{0.0324} = 19.98$

L.H.S. =  $18 + 1.8 + 0.18 = 19.98 = \text{R.H.S.}$

II:  $\sqrt{129} + \sqrt{121} + \sqrt{361} + \sqrt{100} = 13$

L.H.S. =  $\sqrt{129} + 11 + 19 + 10 = \sqrt{169} = 13 = \text{R.H.S.}$

Thus, both I and II are correct.

=> Ans - (D)

**Question 15**

A is 40% more efficient than B. If B alone can complete a work in 42 days, then A alone can complete the same work in how many days?

A 36

B 40

C 30

D 32

Answer: C



**Explanation:**

Let total work to be done = 42 units

B can complete the work in 42 days, => B's efficiency =  $\frac{42}{42} = 1$  unit/day

A is 40% more efficient than B, => A's efficiency =  $1 + \left(\frac{40}{100} \times 1\right) = 1.4$  units/day

∴ Time taken by A =  $\frac{42}{1.4} = 30$  days

=> Ans - (C)

**Question 16**

A train of length 180 metres crosses a tree in 15 seconds and crosses another train of the same length travelling in opposite direction in 20 seconds. What is the speed (in km/hr) of the second train?

A 21.6

B 6

C 33.4

D 36.6

**Answer: A**

**Explanation:**

Let speed of first train =  $x$  m/s and speed of second train =  $y$  m/s

Length of both trains = 180 m

Using, time = distance/speed

=>  $x = \frac{180}{15} = 12$  m/s

The trains are moving in opposite direction, thus relative speed =  $(x + y) = (12 + y)$  m/s

and distance =  $180 + 180 = 360$  m

=>  $12 + y = \frac{360}{20} = 18$

=>  $y = 18 - 12 = 6$  m/s

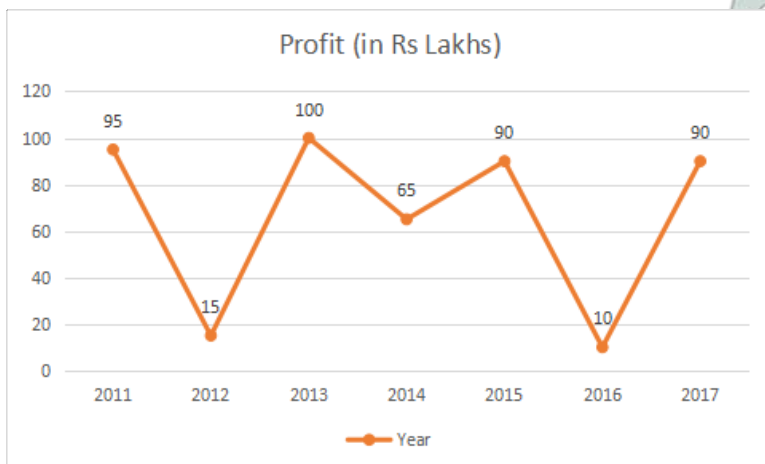
∴ Speed (in km/hr) of the second train =  $6 \times \frac{18}{5} = 21.6$

=> Ans - (A)

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

**Instructions**

The line graph shows the profits of a certain company. Study the diagram and answer the following questions.



**Question 17**

In which year were the profits greater than that of the previous year?

- A 2013
- B 2012
- C 2014
- D 2016

**Answer: A**

**Explanation:**

In 2013, 2015 and 2017, the profits were greater than that of the previous year.

=> Ans - (A)

**Question 18**

What was the difference in the profits (in Rs lakhs) between the years 2014 and 2013?

- A 30
- B 25
- C 40
- D 35

**Answer: D**

**Explanation:**

Profits (in Rs lakhs) in 2013 = 100

Profits (in Rs lakhs) in 2014 = 65

=> Required difference =  $100 - 65 = 35$

=> Ans - (D)

**Question 19**

The profits in 2012 were greater than that in 2016 by \_\_\_\_\_.

- A 16.70%
- B 5%
- C 50%
- D 33.30%

**Answer: C**

**Explanation:**

Profits (in Rs lakhs) in 2012 = 15

Profits (in Rs lakhs) in 2016 = 10

=> Required % =  $\frac{(15-10)}{10} \times 100$

=  $5 \times 10 = 50\%$

=> Ans - (C)

## SSC CHSL Study Material

### Question 20

What were the total profits (in Rs lakhs) of the company in the last four years?

- A 250
- B 245
- C 255
- D 240

Answer: C

#### Explanation:

Total profits (in Rs lakhs) of the company in the last four years (in 2014, 2015, 2016 and 2017)

$$= 65 + 90 + 10 + 90$$

$$= 255$$

=> Ans - (C)

#### Instructions

For the following questions answer them individually

### Question 21

The length and breadth of a rectangle are 21 cm and 20 cm respectively. What must be the length of its diagonal (in cm)?

- A 58
- B 18
- C 36
- D 29

Answer: D

#### Explanation:

Length of rectangle,  $l = 21$  cm and breadth,  $b = 20$  cm

$$\Rightarrow \text{Diagonal, } d = \sqrt{l^2 + b^2}$$

$$\Rightarrow d = \sqrt{(21)^2 + (20)^2}$$

$$\Rightarrow d = \sqrt{441 + 400} = \sqrt{841}$$

$$\Rightarrow d = 29 \text{ cm}$$

=> Ans - (D)

### Question 22

If the measure of the interior angle of a regular polygon is  $108^\circ$  greater than the measure of its exterior angle then how many sides does it have?

- A 10
- B 12
- C 15

D 18

Answer: A

Explanation:

Let the number of sides of the polygon =  $n$

Sum of all interior angles =  $(n - 2) \times 180^\circ$

Sum of all exterior angles =  $360^\circ$

According to ques,

$$\Rightarrow \frac{(n-2) \times 180^\circ}{n} - \frac{360^\circ}{n} = 108^\circ$$

$$\Rightarrow 180n - 360 - 360 = 108n$$

$$\Rightarrow 180n - 108n = 720$$

$$\Rightarrow n = \frac{720}{72} = 10$$

$\Rightarrow$  Ans - (A)

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Question 23

Find the volume ( $incm^3$ ) of a sphere of diameter 21 cm.

A 4851

B 3628

C 3071

D 3724

Answer: A

Explanation:

Diameter of sphere = 21 cm

Volume of sphere =  $\frac{4}{3} \times \pi r^3$

$$= \frac{4}{3} \times \frac{22}{7} \times \left(\frac{21}{2}\right)^3$$

$$= 11 \times 441 = 4851 \text{ cm}^3$$

$\Rightarrow$  Ans - (A)

Question 24

What is the value of  $\left(\frac{1}{3} - \sec 45^\circ\right)$  ?

A  $\frac{4-\sqrt{3}}{2}$

B  $\frac{(\sqrt{6}-1)}{\sqrt{3}}$

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

D  $\frac{(\sqrt{2}-1)}{\sqrt{2}}$

Answer: C

**Explanation:**

$$\text{Expression : } \left(\frac{1}{3} - \sec 45^\circ\right)$$

$$= \frac{1}{3} - \sqrt{2}$$

$$= \frac{(1-3\sqrt{2})}{3}$$

=> Ans - (C)

**Question 25**

$\Delta ABC$  is right angled at B. If  $\sec A = \frac{5}{3}$ , then what is the value of  $\operatorname{cosec} C$  ?

A  $\frac{5}{3}$

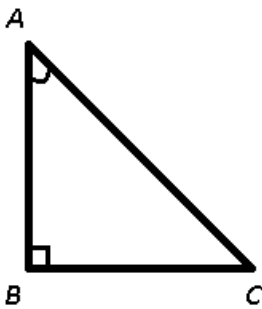
B  $\frac{3}{4}$

C  $\frac{4}{5}$

D  $\frac{4}{3}$

**Answer: A**

**Explanation:**



Given :  $\sec A = \frac{5}{3}$

Also,  $\sec A = \frac{AC}{AB} = \frac{5}{3}$

Let  $AC = 5$  cm and  $AB = 3$  cm

To find :  $\operatorname{cosec} C = \frac{AC}{AB}$

$$= \frac{5}{3}$$

=> Ans - (A)

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### Reasoning

**Instructions**

For the following questions answer them individually

**Question 26**

In the following question, select the related word pair from the given alternatives.

Fatigue : Energy : : ? : ?

A Tyre : Round

B Car : Green

C Fuel : Petrol

D Drought : Flood

**Answer: D**

**Explanation:**

Expression = Fatigue : Energy :: ? : ?

The first and second words are opposite of each other, similarly only antonym pair given is *Drought : Flood*

=> Ans - (D)

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**Question 27**

In the following question, select the related number pair from the given alternatives.

15 : 26 :: ? : ?

A 39 : 49

B 34 : 45

C 46 : 55

D 56 : 69

**Answer: B**

**Explanation:**

Expression = 15 : 26 :: ? : ?

The difference between the numbers =  $26 - 15 = 11$

Similarly, only the difference between  $45 - 34 = 11$

=> Ans - (B)

**Question 28**

In the following question, select the related letter/letters from the given alternatives.

HIK : KLN :: PQS : ?

A TUW

B STV

C STU

D TUX

**Answer: B**

**Explanation:**

Expression = HIK : KLN :: PQS : ?

The pattern followed is :

H	I	K
(+3)	(+3)	(+3)
K	L	N

Similarly, for PQS : **STV**

P	Q	S
(+3)	(+3)	(+3)
S	T	V

=> Ans - (B)

#### Question 29

In the following question, select the odd word pair from the given alternatives.

- A Sorrow - Black
- B Red - Danger
- C Star - Rank
- D Wheel - Progress

Answer: A

#### Explanation:

Second is represented by first, red is the color of danger, star represents higher ranks, forward moving wheel is a symbol of progress, but black represents strength, hence it is the odd one out.

=> Ans - (A)

## 1500+ Very Important Free SSC Solved Questions

#### Question 30

In the following question, four number pairs are given. The number on left side of (-) is related to the number on the right side of (-) with some Logic/Rule/Relation. Three are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives.

- A 11 - 12
- B 23 - 24
- C 17 - 18
- D 19 - 21

Answer: D

#### Explanation:

The difference between each of the pair of numbers is 1.

But in the last option =>  $21 - 19 = 2$

Thus, (19 - 21) is the odd one out.

=> Ans - (D)

#### Question 31

In the following question, select the odd letter/letters from the given alternatives.

- A GMS
- B LRX
- C CIP
- D EKQ

**Answer: C**

**Explanation:**

(A) : G (+6 letters) = M (+6 letters) = S

(B) : L (+6 letters) = R (+6 letters) = X

(C) : C (+6 letters) = I (+7 letters) = P

(D) : E (+6 letters) = K (+6 letters) = Q

=> Ans - (C)

**Question 32**

**From the given alternatives, according to dictionary, which word will come at FOURTH position?**

1. Friend
2. Fringe
3. Florist
4. Frighten
5. Future

- A Friend  
B Fringe  
C Frighten  
D Future

**Answer: B**

**Explanation:**

As per the order of dictionary :

= Florist -> Friend -> Frighten -> Fringe -> Future

Thus, the fourth word = **Fringe**

=> Ans - (B)

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**Question 33**

**In the following question, select the missing number from the given series.**

**9, 28, 86, 261, 787, ?**

- A 2366  
B 1795  
C 2175  
D 2285

**Answer: A**

**Explanation:**

The pattern followed is :

$$9 \times 3 + 1 = 28$$

$$28 \times 3 + 2 = 86$$

$$86 \times 3 + 3 = 261$$



$$261 \times 3 + 4 = 787$$

$$787 \times 3 + 5 = 2366$$

=> Ans - (A)

#### Question 34

A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.

CG, KO, SW, AE, ?

A JN

B MJ

C IM

D JL

Answer: C

#### Explanation:

Series : CG, KO, SW, AE, ?

The pattern followed in each letter of the terms is :

1st letter : C (+8 letters) = K (+8 letters) = S (+8 letters) = A (+8 letters) = I

2nd letter : G (+8 letters) = O (+8 letters) = W (+8 letters) = E (+8 letters) = M

Thus, missing term = **IM**

=> Ans - (C)

#### Question 35

Manoj walks 12 metres towards north. Then turns right and walk another 12 metres. Then turn right and walks for 7 metres to reach college R. He again turns to his right and walks for 12 metres. What is the straight line distance (in metres) between the starting point and college R?

A  $12\sqrt{2}$

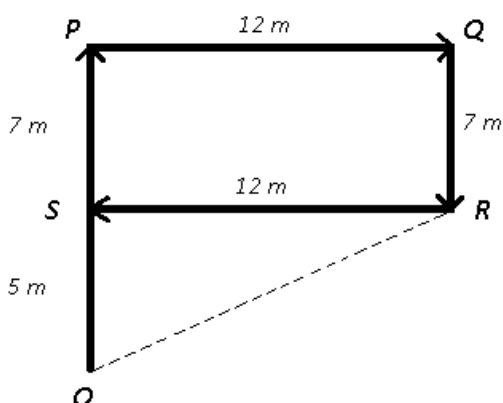
B 13

C 14

D  $14\sqrt{3}$

Answer: B

#### Explanation:



Let Manoj start from point O and walks 12 metres towards north to reach P. Then turns right and walk another 12 metres eastwards to

reach Q. Then turn right and walks for 7 metres southwards to reach college R. He again turns to his right and walks for 12 metres.

$$\text{Thus, } (OR)^2 = (OS)^2 + (SR)^2$$

$$\Rightarrow (OR)^2 = (5)^2 + (12)^2$$

$$\Rightarrow (OR)^2 = 25 + 144 = 169$$

$$\Rightarrow OR = \sqrt{169} = 13 \text{ m}$$

$\Rightarrow$  Ans - (B)

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#### Question 36

From the given alternatives, select the word which CANNOT be formed using the letters of the given word.

**Xenophobia**

A Phone

B Hope

C Xerox

D Open

**Answer: C**

**Explanation:**

The word XENOPHOBIA does not contain any 'R', thus the term **Xerox** cannot be formed.

$\Rightarrow$  Ans - (C)

#### Question 37

In a certain code language, "REGAL" is written as "TCIYN". How is "FARMS" written in that code language?

A RTHKU

B HYTKU

C GTHSR

D NVKTH

**Answer: B**

**Explanation:**

"REGAL" is written as "TCIYN"

The pattern followed is :

R	E	G	A	L
(+2)	(-2)	(+2)	(-2)	(+2)
T	C	I	Y	N

Similarly, for FARMS :

F	A	R	M	S
(+2)	(-2)	(+2)	(-2)	(+2)
H	Y	T	K	U

$\Rightarrow$  Ans - (B)

**Question 38**

In a certain code language, '÷' represents '+', '-' represents 'x', '+' represents '÷' and 'x' represents '-'. Find out the answer to the following question.

$$24 \div 14 - 5 + 10 \times 14 = ?$$

- A 39
- B 45
- C 27
- D 17

**Answer:** D

**Explanation:**

Expression :  $24 \div 14 - 5 + 10 \times 14 = ?$

$$\equiv 24 + 14 \times 5 \div 10 - 14$$

$$= 24 + \frac{70}{10} - 14$$

$$= 10 + 7 = 17$$

=> Ans - (D)

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**Question 39**

The following equation is incorrect. Which two signs should be interchanged to correct the equation?

$$12 \times 4 - 6 \div 7 + 18 = 19$$

- A ÷ and -
- B + and ÷
- C + and x
- D - and +

**Answer:** A

**Explanation:**

Expression :  $12 \times 4 - 6 \div 7 + 18 = 19$

(A) : ÷ and -

$$\equiv 12 \times 4 \div 6 - 7 + 18 = 19$$

$$\text{L.H.S.} = \left( \frac{12}{6} \times 4 \right) + 11$$

$$= (2 \times 4) + 11 = 19 = \text{R.H.S.}$$

=> Ans - (A)

**Question 40**

If  $2\Delta 5 = 5$ ,  $2\Delta 3 = 3$  and  $8\Delta 4 = 16$ , then find the value of  $16\Delta 8 = ?$

- A 18
- B 14

C 16

D 64

Answer: D

**Explanation:**

Given :  $2\Delta 5 = 5$ ,  $2\Delta 3 = 3$  and  $8\Delta 4 = 16$

If we replace ' $\Delta$ ' with 'x', and divide the product by 2, we get the desired result.

Eg :-  $\frac{2 \times 5}{2} = 5$

and  $\frac{2 \times 3}{2} = 2$  and  $\frac{8 \times 4}{2} = 16$

Similarly,  $\frac{16 \times 8}{2} = 64$

=> Ans - (D)

**Question 41**

Which of the following terms follows the trend of the given list?

XXXXXXY, XXXXXYX, XXXXYXX, XXXYXXX, XXYXXXX, \_\_\_\_\_.

A XYXXXXX

B YXXXXXX

C XXXXXXY

D XXXXXYX

Answer: A

**Explanation:**

Expression : XXXXXXY, XXXXXYX, XXXXYXX, XXXYXXX, XXYXXXX, \_\_\_\_\_.

The pattern followed is that in each term there are combinations of 'X' and 'Y' (7 letters) and in each term, the position of Y is shifted one place to the left.

Thus, in the missing term, Y will be at the second position = XYXXXXX

=> Ans - (A)

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**Question 42**

Two vans X and Y start from the same point. X travels 5 km West, then turns to its left and travels 3 km. Y travels 13 km South, then turns West and travels 5 km, then turns to its left and travels 7 km. Where is Y with respect to X now?

A 11 km South

B 17 km South

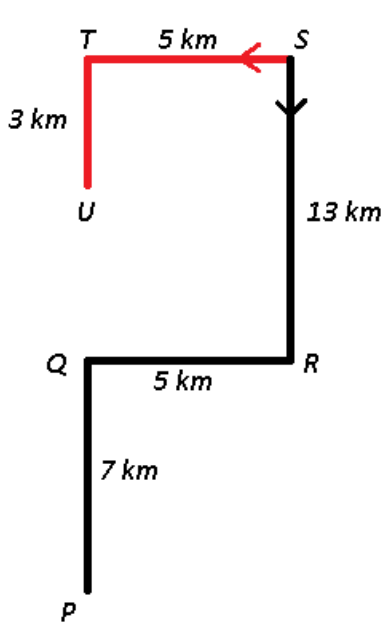
C 17 km North

D 11 km North

Answer: B

**Explanation:**

Let the two vans X and Y start from the same point S. X (red) travels 5 km West, then turns to its left and travels 3 km to finally stop at U. Y (black) travels 13 km South to reach R, then turns West and travels 5 km, finally turns to its left and travels 7 km towards south to stop at point P.



=>  $PU = (13 - 3) + 7 = 17 \text{ km}$

∴ Y is 17 km south with respect to X now.

=> Ans - (B)

**Question 43**

In the question two statements are given, followed by two conclusions, I and II. You have to consider the statements to be true even if it seems to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follows from the given statements.

**Statement I: No fruits are berries**

**Statement II: Some cherries are fruits**

**Conclusion I: All berries are cherries**

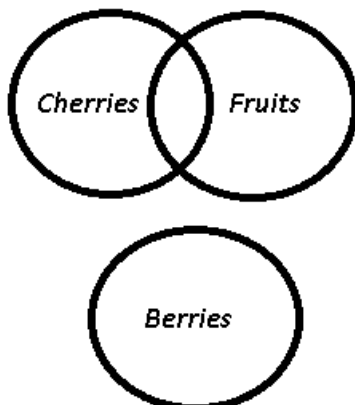
**Conclusion II: Some cherries are berries**

- A Only conclusion I follows
- B Only conclusion II follows
- C Both conclusions I and II follow
- D Neither conclusion I nor conclusion II follows

**Answer: D**

**Explanation:**

The venn diagram for above statements is :



Conclusion I: All berries are cherries = false

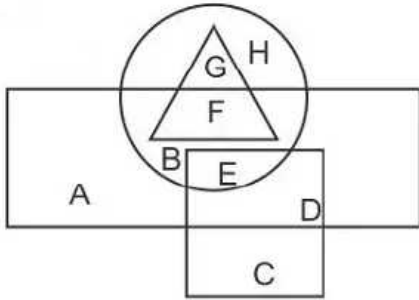
Conclusion II: Some cherries are berries = may or may not be true

Thus, neither conclusion I nor conclusion II follows.

=> Ans - (D)

**Question 44**

In the following figure, rectangle represents Dieticians, circle represents Racers, triangle represents Singers and square represents Cricketers. Which set of letters represents Dieticians who are either Racers or Singers?



A BED

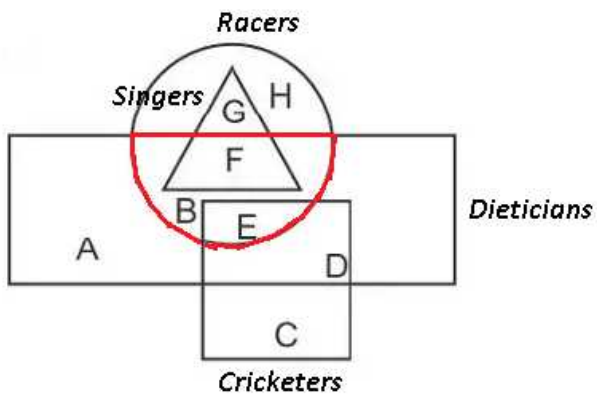
B GH

C FBE

D ABC

Answer: C

Explanation:



Dieticians who are either Racers or Singers are represented by = FBE

=> Ans - (C)

## SSC CHSL Free Mock Test

**Question 45**

A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.

ARC, XOZ, ULW, ?, OFQ

A RIT

B KFT

C RAK

D SJQ

Answer: A

Explanation:

Series : ARC, XOZ, ULW, ?, OFQ

The pattern followed in each letter of the terms is :

1st letter : A (-3 letters) = X (-3 letters) = U (-3 letters) = R (-3 letters) = O

2nd letter : R (-3 letters) = O (-3 letters) = L (-3 letters) = I (-3 letters) = F

3rd letter : C (-3 letters) = Z (-3 letters) = W (-3 letters) = T (-3 letters) = Q

Thus, missing term = **RIT**

=> Ans - (A)

Question 46

In the following question, select the missing number from the given series.

152, 164, 176, 188, ?, 212

A 196

B 202

C 200

D 210

Answer: C

Explanation:

'12' is added to all the numbers.

$152 + 12 = 164$

$164 + 12 = 176$

$176 + 12 = 188$

$188 + 12 = \mathbf{200}$

$200 + 12 = 212$

=> Ans - (C)

Question 47

In the following question, four groups of three numbers are given. In each group the second and third number are related to the first number by a Logic/Rule/Relation. Three are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives.

A (63, 74, 85)

B (97, 108, 119)

C (92, 103, 116)

D (74, 85, 96)

Answer: C

Explanation:

The numbers are of the form :  $(x, x + 11, x + 22)$

But in the third option, we have  $= 92 + 22 = 114 \neq 116$

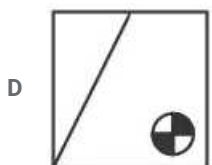
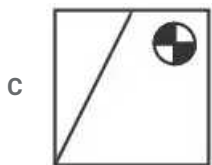
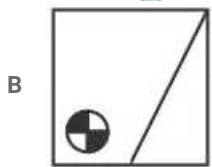
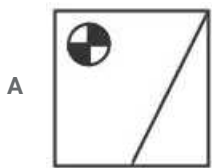
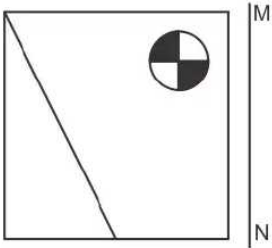
Thus, (92, 103, 116) is the odd one out.

=> Ans - (C)

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### Question 48

If a mirror is placed on the line MN, then which of the answer figures is the right image of the given figure?



Answer: A

#### Explanation:

A vertical mirror is placed, so the object on the left will appear right in reverse position and vice-versa.

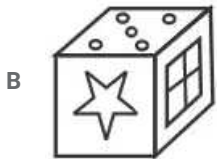
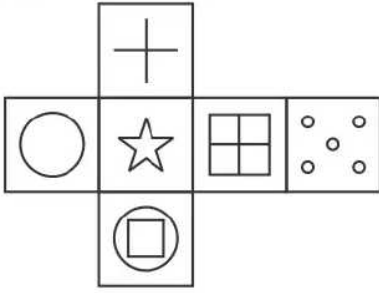
So the circle which is at the top right side of square in the question figure will now appear at top left side, hence first option is the right image since it is the only one which fits above description.

=> Ans - (A)



Question 49

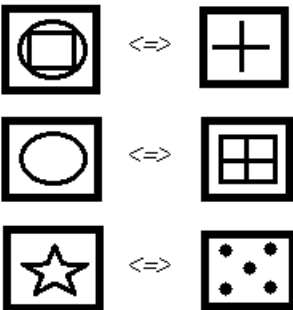
Which of the following cube in the answer figure cannot be made based on the unfolded cube in the question figure?



Answer: B

Explanation:

When we fold the given figure, the square with a 'star' sign will become the base of the cube and the side with only '5 dots' sign will become top, and thus they will face each other. Similarly, the sides which will face each other will be :



Since, the opposite sides cannot be adjacent in the cube, thus the cube in the second option is not possible.

=> Ans - (B)

Question 50

A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as shown in the given two matrices. The columns and rows of Matrix-I are numbered from 0 to 4 and that of Matrix-II are numbered from S to 9. A letter from these matrices can be represented first by its row and next by its column, for example 'G' can be represented by 31, 43 etc and '7' can be represented by 97, 69 etc. Similarly, you have to identify the set for the word 'LATE'.

Matrix - I					
	0	1	2	3	4
0	C	L	H	M	J
1	E	M	I	G	K
2	E	H	I	A	M
3	F	G	B	F	F
4	F	B	J	G	L

Matrix - II					
	5	6	7	8	9
5	X	O	Q	X	P
6	X	Q	O	P	Z
7	W	O	S	S	X
8	R	X	U	U	S
9	Y	T	Z	U	N

- A 44,23,96,20
- B 13,96,14,57
- C 22,96,43,95
- D 41,77,30,59

Answer: A

Explanation:

- (A) : 44,23,96,20 = LATE
  - (B) : 13,96,14,57 = GTKQ
  - (C) : 22,96,43,95 = ITGY
  - (D) : 41,77,30,59 = BSFP
- => Ans - (A)

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**English**

**Instructions**

In the following question, some part of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select 'No Error'.

**Question 51**

Needlessly to say, (a)/ we need more (b)/ environmentalists on this planet. (c)/ No error (d)

- A Needlessly to say
- B we need more
- C environmentalists on this planet
- D No error

Answer: A

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**Question 52**

A debit card is similar to a credit card, but unlike a (a)/ credit card, the money came directly from the (b)/ user's bank account when performing a transaction. (c)/ No error (d)

- A A debit card is similar to a credit card, but unlike a
- B credit card, the money came directly from the
- C user's bank account when performing a transaction
- D No error

**Answer: B**

**Instructions**

In the following question, the sentence given with blank to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option.

**Question 53**

One must read the Terms and Conditions \_\_\_\_\_.

- A committedly
- B scrutiny
- C merely
- D carefully

**Answer: D**

**Question 54**

The bees were buzzing around constantly, busy building their \_\_\_\_\_ pretty fast.

- A hive
- B live
- C survive
- D time

**Answer: A**

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

**Instructions**

In the following question, out of the given four alternatives, select the one which best expresses the meaning of the given word.

**Question 55**

**Attenuate**

- A Weaken
- B Expand
- C Strengthen

D Intensify

Answer: A

Question 56

Omniscient

A Illiterate

B Arrogant

C All-knowing

D Local

Answer: C

Instructions

In the following question, out of the given four alternatives, select the one which is opposite in meaning of the given word.

Question 57

Brindled

A Tabby

B Spotted

C Stippled

D Unflecked

Answer: D

Question 58

Turbulence

A Disorder

B Agitation

C Peace

D Fight

Answer: C

Instructions

For the following questions answer them individually

Question 59

Rearrange the parts of the sentence in correct order.

Libraries' collections are

P : such as economic development, educational

Q : research and recreational pursuits

R : crucial for diverse purposes

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- A RPQ
- B QPR
- C PQR
- D PRQ

Answer: A

**Question 60**

A sentence has been given in Active/Passive Voice. Out of the four given alternatives, select the one which best expresses the same sentence in Passive/Active Voice.

She found him lying on the road.

- A She found him lying on the road.
- B She found him on the road lying.
- C He was found lying on the road.
- D He is found lie on the road.

Answer: C

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**Question 61**

A sentence has been given in Direct/Indirect Speech. Out of the four given alternatives, select the one which best expresses the same sentence in Indirect/Direct Speech.

He said to her, "Is your name Anjali?"

- A He asked her whether her name was Anjali.
- B He inquire about her name being Anjali.
- C He inquired to her, was not her name Anjali.
- D He asked whether her name is not Anjali.

Answer: A

**Question 62**

In the following question, a word has been written in four different ways out of which only one is correctly spelt. Select the correctly spelt word.

- A Presume
- B Perrume
- C Preesume
- D Preseme

Answer: A

## Instructions

In the following passage, some of the words have been left out. Read the passage carefully and select the correct answer for the given blank out of the four alternatives.

Consciousness resembles a stream also in other particulars. A stream is \_\_\_\_\_ unbroken whole from its source to its mouth, and an observer stationed at one point cannot see all \_\_\_\_\_ it at once. He sees but the one little section which \_\_\_\_\_ to be passing his station point at the time. The current may look much the same from moment to moment, but the component particles which constitute the stream are \_\_\_\_\_ changing. So it is with our thought. Its stream is continuous from birth till death, \_\_\_\_\_ we cannot see any considerable portion of it at one time.

### Question 63

A stream is \_\_\_\_\_ unbroken whole from

- A a
- B only
- C an
- D that

Answer: C

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### Question 64

cannot see all \_\_\_\_\_ it at once.

- A of
- B form
- C for
- D off

Answer: A

### Question 65

section which \_\_\_\_\_ to be passing

- A happens
- B happen
- C happened
- D happening

Answer: A

### Question 66

the stream are \_\_\_\_\_ changing.

- A constantly
- B constant

- C constancy
- D constants

Answer: A

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Question 67

birth till death, \_\_\_\_\_ we cannot

- A because
- B if
- C then
- D but

Answer: D

Instructions

In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase.

Question 68

**A penny for your thoughts**

- A A way of asking what someone is thinking.
- B Another way of saying pennywise pound foolish.
- C An idea is less worth a penny unless it is executed successfully.
- D Willing to share a secret only at a price.

Answer: A

Question 69

**All in a day's work**

- A Even in routine work one can find instances of fun.
- B Something unusual or difficult accepted as part of someone's normal routine.
- C A lot of work which is done in just one day.
- D Work all day on a job that you love.

Answer: B

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Instructions

In the following question, out of the four alternatives, select the alternative which is the best substitute of the words/sentence.

Question 70

**A state of disorder due to absence or non-recognition of authority or other controlling systems**

- A Anarchy
- B Bridle
- C Ascendancy
- D Dominion

**Answer: A**

**Question 71**

**A liquid with healing, magical, or poisonous properties**

- A Viscous
- B Potion
- C Dulcet
- D Luscious

**Answer: B**

**Instructions**

In the following question, out of the four alternatives, select the alternative which will improve the bracketed part of the sentence. In case no improvement is needed, select "no improvement".

**Question 72**

**It must (has started) when I was eight or nine years old when the curse of cursive writing struck me.**

- A have started
- B have start
- C have starting
- D no improvement

**Answer: A**

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**Question 73**

**The stove (to lit) using a match stick, each wick lit individually.**

- A were lit
- B are lit
- C was lit
- D no improvement

**Answer: C**

**Instructions**

For the following questions answer them individually



**Question 74**

The question below consists of a set of labelled sentences. Out of the four options given, select the most logical order of the sentences to form a coherent paragraph.

Yet, corporate redundancy

A-victims and the top

B-bosses continue to stay

C-policies have the employees as the first

A CAB

B BCA

C BAC

D ACB

**Answer: A**

**Question 75**

In the following question, four words are given out of which one word is correctly spelt. Select the correctly spelt word.

A exuberantly

B exuberrantly

C exubarantly

D exubarrantly

**Answer: A**

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**General Awareness**

**Instructions**

For the following questions answer them individually

**Question 76**

Human Poverty Index was introduced in the HDR of the year \_\_\_\_\_.

A 1997

B 1990

C 1995

D 2001

**Answer: A**

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**Question 77**

Which Five Year Plan was suspended one year before the time schedule?

- A Third Plan
- B First Plan
- C Sixth Plan
- D Fifth Plan

**Answer: D**

**Question 78**

**What is called the cup or bowl shaped opening of a volcano?**

- A Cinder vent
- B Origin center
- C Epicenter
- D Crater

**Answer: D**

**Question 79**

**Pipli Ghat Pass is located in which mountain area?**

- A Western Ghats
- B Eastern Ghats
- C Vindhya Ghat
- D Aravali

**Answer: D**

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**Question 80**

**Which of the following marriages was NOT considered legal in the ancient India?**

- A Daiv Vivah
- B Arsha Vivah
- C Gandharva Vivah
- D Brahma Vivah

**Answer: C**

**Question 81**

**Which of the following art did rise highest in the Sultanate period?**

- A Painting
- B Architecture

- C Dance
- D Music

Answer: B

**Question 82**

Where is the Bhatkhande Music College located?

- A Lucknow
- B Ahmedabad
- C Chandigarh
- D Allahabad

Answer: A

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**Question 83**

Which Country's passport was ranked as the world's most powerful passport in a new ranking of world passports released on 26 October, 2017 by Passport Index?

- A USA
- B Singapore
- C Canada
- D Switzerland

Answer: B

**Question 84**

Name the writer who has been chosen for the 31<sup>st</sup> Moortidevi Award for the year 2017 for his poetry collection 'Du Dondo Phowara Matro'.

- A Saumeet Chakarovorthy
- B Saumeek Bhattacharya
- C Joy Goswami
- D Tapan Majumdar

Answer: C

**Question 85**

Bhutan's national language is known as \_\_\_\_\_.

- A Dzongkha
- B Khengkha
- C Tshanglakha

D Lhotshamkha

Answer: A

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Question 86

What is the mass number of Deuterium?

A 1

B 2

C 3

D 4

Answer: B

Question 87

Ethanol reacts with sodium leading to the evolution of which gas?

A Nitrogen

B Hydrogen

C Oxygen

D Methane

Answer: B

Question 88

There are \_\_\_\_\_ levels of courts present in India.

A Two

B Three

C Four

D Five

Answer: B

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Question 89

73rd Constitutional Amendment Act gave Constitutional recognition to panchayats by adding \_\_\_\_\_.

A Part VIII

B Part IX

C Part X

D Part XI

Answer: B

**Question 90**

The gustatory receptors in human beings detect \_\_\_\_\_.

- A taste
- B smell
- C touch
- D hear

Answer: B

**Question 91**

When the medium surrounding the cell is a hypotonic solution, the cell is likely to \_\_\_\_\_.

- A Swell up
- B Stay the same size
- C Shrink
- D No option is correct.

Answer: B

## SSC CGL Free Mock Test (Latest Pattern)

**Question 92**

In November 2017, 2<sup>nd</sup> phase of 'Bharat Net Project' was launched. What is the deadline to complete it?

- A March 2018
- B March 2019
- C December 2018
- D March 2020

Answer: B

**Question 93**

The Centre for Cellular and Molecular Biology (CCMB) in association with Indian Institute of Rice Research (IIRR) developed improved variety of which of the following rice with low Glycemic Index?

- A Doongara
- B Samba Masuri
- C Kyeema
- D Langi

Answer: B

**Question 94**

In October 2017, India's 3rd biggest Initial Public Offering (IPO) worth \_\_\_\_\_ was launched by GIC Re.

- A Rs.10,500 crore
- B Rs.11,370 crore
- C Rs.13,900 crore
- D Rs.17,000 crore

**Answer: B**

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

**Question 95**

On 5 January 2018, Lok Sabha passed High Court and Supreme Court Judge (Salaries and Conditions of Service) Amendment Bill, 2017. The Bill seeks to revise the allowances with effect from \_\_\_\_\_.

- A September 22, 2017
- B June 22, 2017
- C April 22, 2017
- D January 22, 2017

**Answer: B**

**Question 96**

Find the kinetic energy (in J) possessed by a body of mass 20 kg moving with a velocity of  $4 \frac{m}{s}$ .

- A 40
- B 120
- C 160
- D 80

**Answer: C**

**Question 97**

1 joule is equal to 1 \_\_\_\_\_.

- A  $Nm$
- B  $\frac{N}{m}$
- C  $Nm^2$
- D  $\frac{N}{m^2}$

**Answer: A**

**Question 98**

\_\_\_\_\_ which are used in refrigerators, air conditioners and aerosol sprays.

- A Chlorofluorocarbons
- B Acetophenones
- C Cyclohexanes
- D Phenols

**Answer: A**

**Question 99**

Which of the statements given below are correct?

- A) In 2017, Suresh Raina captained the IPL team Sunrisers Hyderabad.
- B) In 2017, Zaheer Khan captained the IPL team Delhi Daredevils.
- C) France hosted the 2017 World Team Chess Championship.

- A Only B
- B Only C
- C Both B and C
- D A, B and C

**Answer: A**

**Question 100**

In Microsoft Word, \_\_\_\_\_ provides a neat way to present complex information in vertical columns and horizontal rows of cells.

- A Tab
- B Tables
- C Rows
- D Columns

**Answer: B**

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