



## SSC CHSL 11 July 2019 Shift-2

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## Reasoning

### Instructions

For the following questions answer them individually

### Question 1

If **SAW** is coded as **8264** and **CUDDLE** is coded as **24623231522**, then how will **MEDULLA** be coded as?

- A 1422237151525
- B 1422236151526
- C 1422236151625
- D 1422236161526

**Answer: B**

### Explanation:

If we take the every position of alphabetical series from bottom means A=26, B=25, C= 24 and so on

S	A	W	
8	26	4	Hence, SAW = 8264

C	U	D	D	L	E	
24	6	23	23	15	22	Hence, CUDDLE = 24623231522

In the same way **MEDULLA** is written as **1422236151526**

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### Question 2

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

- A Kiwi
- B Eagle
- C Vulture
- D Goose

**Answer: A**

### Explanation:

Kiwi is a fruit and even Kiwi is a bird but rest of the option are the name of birds only and no fruit of similar name exists.

### Question 3

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

$$8 + 15 - 20 \times 10 \div 5 = 47$$

- A  $\times$  and  $\div$ , 5 and 8
- B  $+$  and  $-$ , 8 and 15

C  $+and \div$ , 10 and 20

D  $\times and -$ , 15 and 20

**Answer: B**

**Explanation:**

$$8 + 15 - 20 \times 10 \div 5 = 47$$

After interchanging the  $+and-$ ,  $8and15$

$$15 - 8 + 20 \times 10 \div 5 = 47$$

$$7 + 40 = 47$$

$$47 = 47$$

**Question 4**

'RETINA' is related to 'EYE' in the same way as 'HYDROGEN' is related to '\_\_\_\_\_'.  


A WATER


B IODINE

C EAR

D LEGS

**Answer: A**

**Explanation:**

retina is inside the eye in the same way hydrogen is inside the water  


## SSC CHSL Free Mock Test

**Question 5**

Select the set in which the numbers are related in the same way as are the numbers of the following set.  
(16, 23, 32)

A (10, 23, 46)

B (11, 18, 27)

C (6, 14, 25)

D (10, 17, 28)

**Answer: B**

**Explanation:**

$$(16, 23, 32) \text{ pattern is } 16 + 7 = 23, 23 + 9 = 32$$

$$\text{In the same way } (11, 18, 27) = 11 + 7 = 18, 18 + 9 = 27$$

**Question 6**

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.  
Ostrich : Eagle

A Cow : Elephant

B Swan : Lion

C Whale : Kite  


D Hen : Goat

Answer: A

**Explanation:**

Ostrich and Eagle both have two legs in the same way cow and elephane have four legs.

**Question 7**

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

7, 9, 12, 17, 24, 35, ?

A 52

B 45

C 47

D 48

Answer: D

**Explanation:**

7,	9,	12,	17,	24,	35,	48
+2	+3	+5	+7	+11	+13	

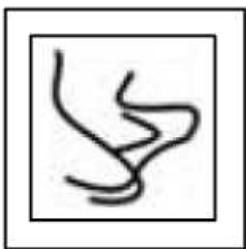
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**Question 8**

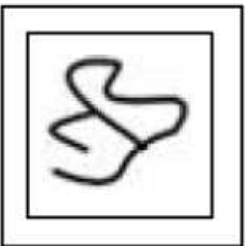
Select the option in which the given figure (X) is embedded.

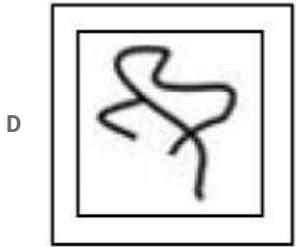
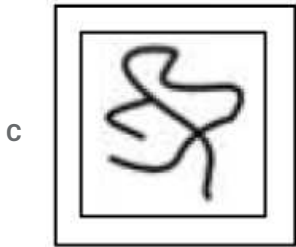


A



B





Answer: C

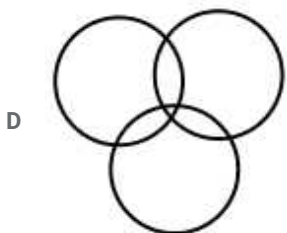
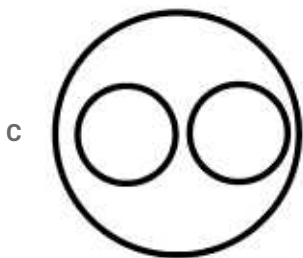
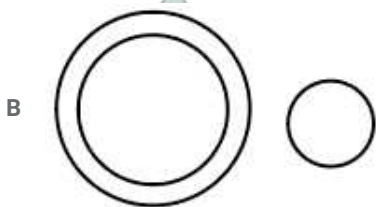
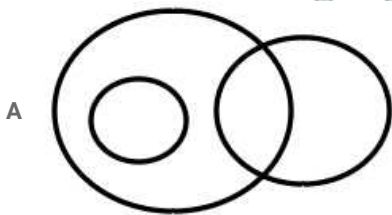
Explanation:

Figure of option C is embedded.

Question 9

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

Ants, Butterflies, Insects



Answer: C

Explanation:

All Ants and butterfly are insects. So, option C is correct.

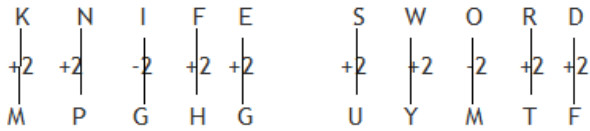
**Question 10**

In a code language, KNIFE is written as MPGHG. How will SWORD be written as in that language?

- A UYMTF
- B VYMTF
- C UYMTE
- D UYQTF

**Answer: A**

**Explanation:**



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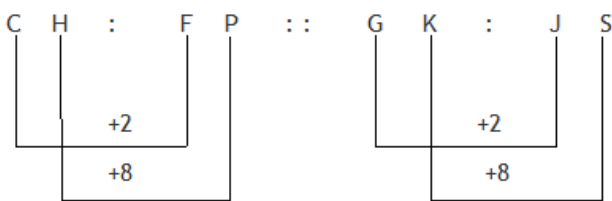
**Question 11**

Select the option that is related to the third letter-pair in the same way as the second letter pair is related to the first letter-pair CH : FP :: GK : ?

- A JS
- B MP
- C JL
- D NU

**Answer: A**

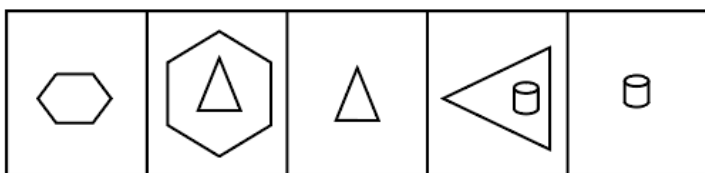
**Explanation:**

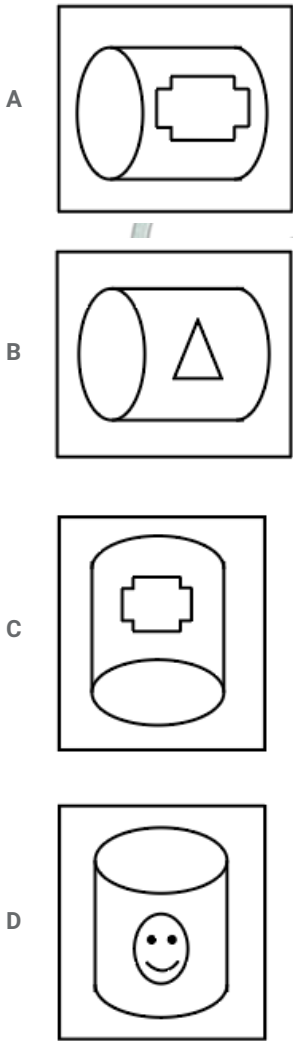


**Question 12**

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

**Problem figure**





Answer: A

**Explanation:**

The pattern is figure is moving 90 degree anti clock wise with new figure inside the first figure. So,figure of Option A have new figure inside it and also it has moved 90 degree anti clock wise.

**Question 13**

Which letter-pair will replace the question mark (?) in the following series?

EI, GK, ?, KO, MQ

A IL

B KM

C IM

D JK

Answer: C

**Explanation:**

E	I,	G	K,	I	M,	K	O,	M	Q
	+2		+2		+2		+2		
	+2		+2		+2		+2		

## SSC CGL Free Mock Test (Latest Pattern)

### Question 14

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 13
- B 23
- C 17
- D 51

Answer: D

### Explanation:

Except 51 all are prime numbers.

### Question 15

Select the set in which the numbers are related in the same way as are the numbers of the following set.

(25, 49, 37)

- A (12, 14, 8)
- B (16, 64, 78)
- C (26, 64, 120)
- D (6, 4, 5)

Answer: D

### Explanation:

(25, 49, 37) pattern is  $\frac{25+49}{2} = 37$

So, (6, 4, 5) is following the same pattern.

### Question 16

Arrange the following words in the sequence as they appear in English dictionary order.

1. Master
2. Marvel
3. Market
4. Marker
5. Marble
6. Margin

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

Answer: B

### Explanation:

5, 4, 6, 3, 2, 1 will be the correct sequence according to english dictionary.



Question 17

What was the day of the week on 26 January 2012 ?

- A Sunday
- B Saturday
- C Thursday
- D Tuesday

Answer: C

Explanation:

26 January 2012 = (2011 years + period between 1-1-2012 to 26-01-2012)

odd days in 2000 = 0

in remaining 11 years = (2 leap years + 9 normal years) =  $(2 * 2 + 9 * 1) = 13 - 14 = 6$  odd days

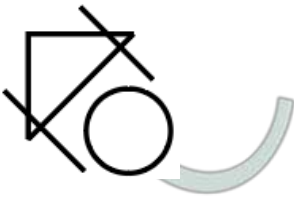
Total number of days in period between 1-1-2012 to 26-01-2012 = 26 days = 3 weeks + 5 days = 5 odd days

Total number of odd days =  $(6 + 5) = 11 - 7 = 4$  days

Hence, given day is Thursday (0 odd day means sunday, 1 odd day means mon and so on).

Question 18

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



Answer: A

**Explanation:**

When mirror is placed at left of the figure, then right will becomes left and left will becomes right. And top and bottom will be remain same.

**Question 19**

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, 13

- A 15, 19
- B 17, 25
- C 23, 31
- D 17, 21

Answer: C

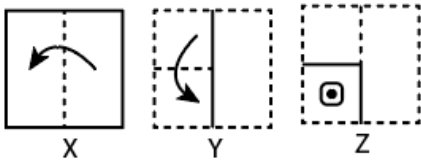
**Explanation:**

7, 13 are prime numbers in the same way 23 and 31 are prime numbers.

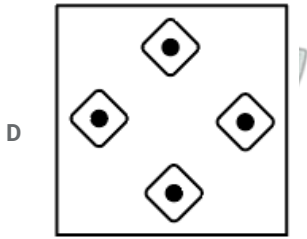
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**Question 20**

A paper is folded and cut as shown in the following figures (X, Y and Z). Select the option that depicts how this paper will appear when unfolded ?



- A
- B
- C



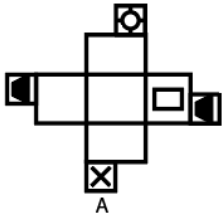
Answer: A

**Explanation:**

We will see from the last figure and then we will observe that figure of option A will appear when unfolded.

**Question 21**

A paper sheet is made into the following pattern (A). Find the cube that will best represent after folding the paper (A).



1	2	3	4

A 1, 2 and 3 only

B 1, 3 and 4 only

C 2, 3 and 4 only

D 2 and 3 only

Answer: C

**Explanation:**

2, 3 and 4 will best represent after folding the paper (A).

**Question 22**

Two statements are given, followed by four conclusions numbered I, II, III and IV. 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.

**Statement :**

No carrot is root.

All roots are pota toes.

**Conclusions:**

I. No carrot is potatoes.

II. No potatoes is carrot .

III. Some potatoes are ro ots.

IV . All the potatoes are roots .

A Only conclusion (III) follow

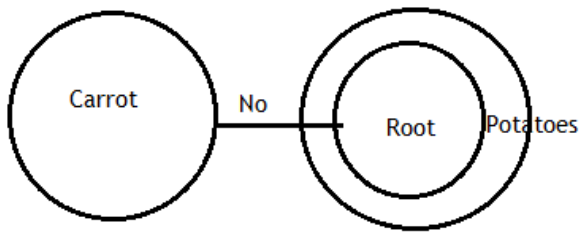
B Conclusion (I) and (IV) follows

C Conclusion (I) and (II) follows

D Only conclusion (I) follow

Answer: A

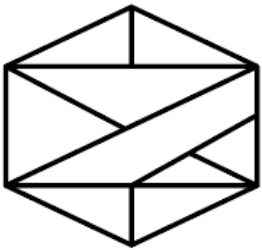
Explanation:



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Question 23

How many triangles are present in the following figure ?



A 14

B 16

C 13

D 11

Answer: C

Explanation:

Total number of triangle =  $3+3+4+3=13$

Question 24

Mala and Lali are sisters. Mahesh is father of Dev. Gargi is mother of Mala and Dev. How Mahesh's father is related to Lali?

A Paternal Grand Father

B Uncle

C Father

D Maternal Grand Father

Answer: A

Explanation:

1. Mala and Lali are sisters

2. Gargi is mother of Mala and Dev

3. Mahesh is father of Dev

From point 2 and 3 we can conclude that fathers of Mala and Dev and Lali is Mahesh

So father of Mahesh will be paternal grandfather of Lali.

**Question 25**

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

- A IKMO
- B PRTW
- C BDFH
- D CEGI

**Answer:** B

**Explanation:**

P	R	T	W
+2	+2	+3	

## Daily Free SSC Practice Set

### General knowledge

**Instructions**

For the following questions answer them individually

**Question 26**

The famous Civil Rights activist Irom Chanu Sharmila belongs to which of the following states of India?

- A Manipur
- B Tripura
- C Himachal Pradesh
- D Assam

**Answer:** A

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**Question 27**

Netaji Subhas National Institute of Sports is located in \_\_\_\_\_.

- A Patiala
- B Karnal
- C Agartal
- D Cuttack

**Answer:** A

**Explanation:**

Netaji Subhas National Institute of Sports commonly known as National Institute of Sports, is the Academic Wing of the Sports Authority of India and Asia's largest Sports Institute located in city of Patiala.

**Question 28**

Which of the following hormones is known to be helpful in coping with stress?

- A Serotonin
- B Testosterone
- C Calcitonin
- D Melatonin

**Answer: A**

**Question 29**

With reference to the banking system of India, what does NEFT stand for?

- A National Equity Finance Transaction
- B National Equity Funds Transaction
- C National Electronic Finance Transfer
- D National Electronic Funds Transfer

**Answer: D**

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**Question 30**

Daringbadi hill station is located in \_\_\_\_\_.

- A Madhya Pradesh
- B Jharkhand
- C Odisha
- D West Bengal

**Answer: C**

**Question 31**

Which of the following is NOT a type of loan available under the Pradhan Mantri MUDRA Yojana?

- A Purush
- B Kishore
- C Shishu
- D Tarun

**Answer: A**

**Question 32**

Which of the following is an igneous rock?

- A Limestone
- B Slate
- C Marble
- D Granite

Answer: D

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### Question 33

Which of the following is NOT a classical language of India?

- A Odia
- B Pali
- C Kannada
- D Telugu

Answer: B

### Question 34

Who became the acting prime minister of India after the death of Jawaharlal Nehru in 1964?

- A V P Singh
- B Morarji Desai
- C Gulzarilal Nanda
- D Charan Singh

Answer: C

### Question 35

Who is the author of the book 'The Idea of India'?

- A Sunil Khilnani
- B Amartya Sen
- C Girish Kuber
- D Amitav Ghosh

Answer: A

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### Question 36

The 1982 Asian Games were hosted by \_\_\_\_\_.

- A Pakistan
- B South Korea
- C India
- D Saudi Arabia

**Answer: C**

**Question 37**

**In the context of the Internet, what does IP stand for?**

- A Internet Protocol
- B Intra Propaganda
- C Intra Protocol
- D Internet Proposal

**Answer: A**

**Question 38**

**Who among the following discovered the circulation of blood ?**

- A William Harvey
- B Florence Rena Sabin
- C Ernest Heinrich Weber
- D Van Leeuwenhock

**Answer: A**

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**Question 39**

**In 1974, the first nuclear test of Pokhran was code named as:**

- A Dancing Buddha
- B Blessing Buddha
- C Smiling Buddha
- D Laughing Buddha

**Answer: C**

**Question 40**

**Which of the following trains entered its 90th year of service on 1st June 2019?**

- A Deccan Queen
- B The Golden Chariot



- C Palace On Wheels
- D Deccan Odyssey

**Answer: A**

**Question 41**

**As of May 2019, who is the CEO of Google?**

- A Jan Koum
- B Satya Nadella
- C Sundar Pichai
- D Vinod Khosla

**Answer: C**

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**Question 42**

**Which of the following decisions was taken in the first cabinet meeting of the Narendra Modi 2.0 Government?**

- A Expansion of Ayushman Bharat Program
- B Scholarship to wards of martyred state police officials
- C Disinvestment of 10 key PSUs
- D Announcement of new employment policy

**Answer: B**

**Question 43**

**'Silappadikaram' is a Tamil epic that was written by \_\_\_\_.**

- A Sattanar
- B Ilango Adigal
- C Thiruvalluar
- D Avvaiyar

**Answer: B**

**Question 44**

**'DhanuYatra' is an annual open air theatrical performance celebrated in \_\_\_\_.**

- A Uttarakhand
- B Odisha
- C Gujarat
- D Assam

**Answer: B**



## SSC CHSL Free Mock Test

Question 45

Which of the following rivers is a left bank tributary of Ganga?

- A Son
- B Betwa
- C Ken
- D Gandak

Answer: D

Question 46

India successfully test-fired 'Nirbhay' in April 2019. It is a/an \_\_\_\_\_.

- A Trans-sonic missile
- B Supersonic missile
- C Sub-sonic missile
- D Hypersonic missile

Answer: C

Question 47

Sariska Tiger Reserve is located in \_\_\_\_\_.

- A Rajasthan
- B Uttarakhand
- C Madhya Pradesh
- D Maharashtra

Answer: A

## SSC CHSL Previous Papers (DOWNLOAD PDF)

Question 48

Who among the following is a famous Snooker player in India ?

- A Prajnesh Gunneswaran
- B Sharath Achanta
- C Pankaj Advani
- D Vimal Kumar

Answer: C

Question 49

In May 2019, scientists from Council of Scientific & Industrial Research's (CSIR)-Centre for Cellular and Molecular Biology in Hyderabad, for the first time, sequenced the entire genome of \_\_\_\_\_.

- A Elephant
- B Asiatic Lion
- C Lion-tailed Macaque
- D Nilgiri Tahr

Answer: B

Question 50

Who among the following was known as 'Devanam Piya'?

- A Kanishka
- B Amoghavarsha
- C Ashoka
- D Kharavela

Answer: C

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**Quant**

**Instructions**

For the following questions answer them individually

Question 51

The perimeter of  $\triangle ABC$  is 24 cm and its side,  $BC = 9$  cm.  $AD$  is the bisector of  $\angle BAC$ , while  $I$  is the incentre.  $AI : ID$  is equal to:

- A 7 : 5
- B 5 : 2
- C 3 : 2
- D 5 : 3

Answer: D

**Explanation:**

$$\frac{AI}{ID} = \frac{AB+AC}{BC} = \frac{15}{9}$$

$$\frac{AI}{ID} = \frac{15}{9} = \frac{5}{3}$$

**SSC CGL Free Mock Test (Latest Pattern)**

Question 52

A man loses 20% by selling an article for ₹96. For what amount should he have sold the article to gain 15% ?

- A ₹120
- B ₹115
- C ₹138
- D ₹140

Answer: C

**Explanation:**

S.P = Rs 96, Loss = 20%

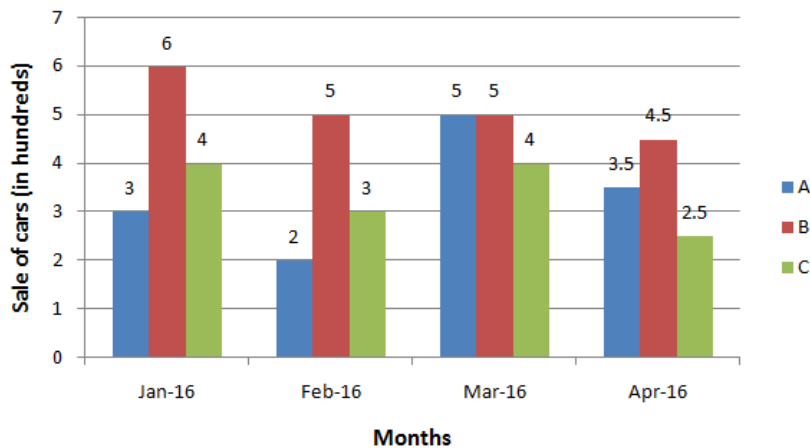
$$C.P = 96 \times \frac{100}{80} = 120$$

Required profit = 15%

$$\text{New S.P} = 120 \times \frac{115}{100} = \text{Rs}138$$

**Question 53**

The given Bar Graph presents the sale of a particular brand of car by three show rooms, A, B and C (in multiples of 100) during the months Jan, Feb, Mar and Apr, 2016.



If the cars sold by A and B are all found to be in perfect order, but the cars sold by C were found to be defective to the extent of 15%, 10%, 8% and 6%, respectively in Jan, Feb, Mar and Apr 2016. What is the percentage of defective cars sold by all showrooms during Apr, 2016?

- A  $\frac{4}{9}$
- B  $\frac{3}{17}$
- C  $\frac{4}{29}$
- D  $\frac{2}{73}$

Answer: B

**Explanation:**

Number of total cars in April 2016 = 350 + 450 + 250 = 1050

$$\text{Number of defective cars} = 6\% \text{ of } 250 = 6 \times \frac{250}{100} = 15$$

$$\text{Required percentgae} = \frac{15}{1050} \times 100 = \frac{10}{7}\%$$

**Question 54**

The difference between the compound interest and the simple interest on a sum at 10% p.a. for three years is ₹155. The sum (in ₹) is:

- A 5,500
- B 6,000
- C 6,600
- D 5,000

Answer: D

Explanation:

$$C.I - S.I \text{ for three years} = \frac{PR^3}{100^3} + \frac{3PR^2}{100^2}$$

$$155 = \frac{P \times 10^3}{100^3} + \frac{3P \times 10^2}{100^2}$$

$$155 = \frac{P}{1000} + \frac{3P}{100} = \frac{31P}{1000}$$

$$P = 5000$$

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

Question 55

An inlet pipe can fill a tank in 10 hours and an outlet pipe can empty the completely filled tank in 20 hours. Both the pipes are opened at 6.30 a.m. When will the tank get filled?

- A 2.30 a.m. next day
- B 2 a.m. next day
- C 1 a.m. next day
- D 12.00 midnight

Answer: A

Explanation:

$$\text{Tank filled in 1 hour} = \frac{1}{10} - \frac{1}{20} = \frac{10}{200} = \frac{1}{20}$$

So, the tank will be filled in 20 hours means 2.30 am next day.

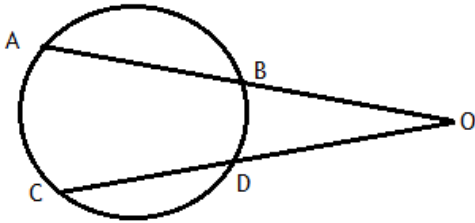
Question 56

Two chords, AB and CD of circle meet at a point O, outside the circle. It is given that AB = 7 cm, CD = 4 cm, OB = 5 cm. What is the length of OD?

- A 5 cm
- B 6 cm
- C 7.5 cm
- D 10 cm

Answer: B

Explanation:



If two chords, AB and CD of circle meet at a point O, outside the circle then  $OA \times OB = OC \times OD$

Given AB=7cm, OB = 5 cm, CD = 4 cm let OD= x

So, OA=12 and OC=4+x

$$12 \times 5 = (4 + x) \times x$$

$$x^2 + 4x - 60 = 0$$

$$x^2 + 10x - 6x + 60 = 0$$

$$x(x + 10) - 6(x + 10) = 0$$

$$x = 6 \text{ cm}$$

**Question 57**

For all  $\alpha_i$ 's, ( $i = 1, 2, 3, \dots, 20$ ) lying between  $0^\circ$  and  $90^\circ$ , it is given that,  $\cos \alpha_1 + \cos \alpha_2 + \cos \alpha_3 + \dots + \cos \alpha_{20} = 20$ . What is the value of  $(\alpha_1 + \alpha_2 + \alpha_3 + \dots + \alpha_{20})$  ?

- A  $90^\circ$
- B  $180^\circ$
- C  $0^\circ$
- D  $20^\circ$

Answer: C

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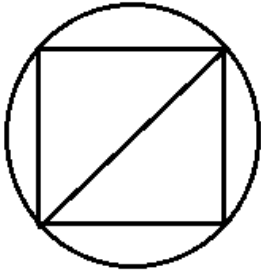
**Question 58**

A square has been inscribed in a circle. What is the ratio of the length of a side of the square to the radius of the circle?

- A 2:1
- B  $1 : \sqrt{2}$
- C 1:2
- D  $\sqrt{2} : 1$

Answer: D

Explanation:



Let the side of square be  $x$

Hypotenuse of square = diameter of circle =  $d^2 = x^2 + x^2$

$$d = \sqrt{2}x \text{ and } r = \frac{x}{\sqrt{2}}$$

Required ratio =  $x : \frac{x}{\sqrt{2}} = \sqrt{2} : 1$

**Question 59**

If  $(1.25)(1 - 6.4 \times 10^{-5}) = 1.2496 + a$ , then  $a$  is equal to:

- A 0.0016
- B 0.00016
- C 0.0032
- D 0.00032

Answer: D

**Explanation:**

$$(1.25)(1 - 6.4 \times 10^{-5}) = 1.2496 + a$$

$$(1.25)(1 - 6.4 \times 100000) = 1.2496 + a$$

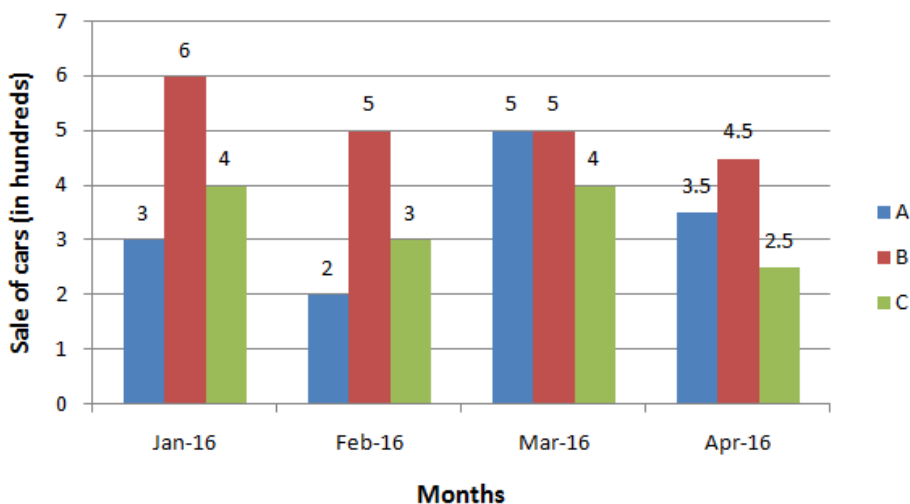
$$1.25 - \frac{8}{100000} = 1.2496 + a$$

$$1.24992 = 1.2496 + a$$

$$a = 0.00032$$

**Question 60**

The given Bar Graph presents the sale of a particular brand of car by three showrooms, A, B and C (in multiples of 100) during the months Jan, Feb, Mar and Apr, 2016.



What is the ratio of number of cars sold by A in Jan-Feb, 2016 to that of cars sold by B during Mar-Apr, 2016?

- A 5:8
- B 8:17
- C 12:19
- D 10:19

Answer: D

**Explanation:**

Required ratio =  $(3 + 2) : (5 + 4.5) = 5 : 9.5 = 10 : 19$

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**Question 61**

The volume of a right circular cone is equal to that of a sphere, whose radius is half the radius of the base of the cone. What is the ratio of the radius of the base to the height of the cone ?

- A 1:4
- B 1:2
- C 4:1
- D 2:1

Answer: D

**Explanation:**

Volume of right circular cone = Volume of sphere

$$\frac{1}{3} \pi r^2 h = \frac{4}{3} \pi r^3$$

$$r^2 h = 4\pi \left(\frac{r}{2}\right)^3 \text{ (radius of sphere = half of radius of base of cone)}$$

$$h = \frac{r}{2}$$

$$r : h = 2 : 1.$$

**Question 62**

if  $(a+b+4)(ab+4(a+b))-4ab=0$ , and  $a \neq -4$ ,  $b \neq -4$ , then  $\left(\frac{1}{(a+b+4)^{117}} - 2^{-234}\right)$  is equal to

- A  $\frac{1}{4^{117}}$
- B  $\frac{1}{2^{117}}$
- C  $-\frac{1}{2^{234}}$
- D 0

Answer: D

**Question 63**

The simplified value of

$$\left\{ {}^3_4 \text{ of } {}^4_{15} \times {}^2_3 - \left( {}^1_{32} \rightarrow {}^1_{26} \right) \right\}$$

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



- B  $-1$   
 C  $2$   
 D  $\frac{2}{3}$

Answer: B

Explanation:

$$\left\{ 4 \text{ of } \frac{4}{15} \times 1\frac{2}{3} - \left( 3\frac{1}{2} - 2\frac{1}{6} \right) \right\}$$

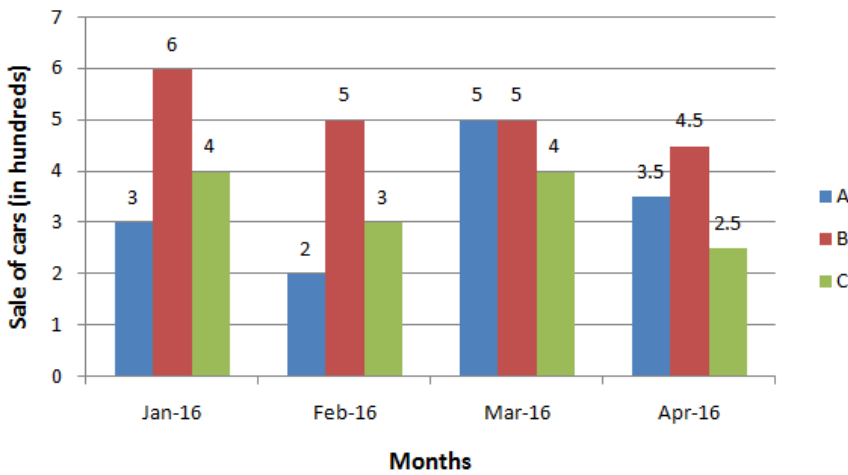
$$\left\{ 4 \times \frac{4}{15} \times \frac{5}{3} - \left( 2 - \frac{13}{6} \right) \right\}$$

$$\frac{1}{3} - \frac{8}{6} = -\frac{6}{6} = -1$$

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Question 64

The given Bar Graph presents the sale of a particular brand of car by three showrooms, A, B and C (in multiples of 100) during the months Jan, Feb, Mar and Apr, 2016.



What was the average number of cars sold by A during Feb-Apr, 2016?

- A 375  
 B 350  
 C 250  
 D 300

Answer: B

Explanation:

$$\text{Required average} = \frac{(200+500+350)}{3} = \frac{1050}{3} = 350$$

Question 65

For  $0^\circ < \theta < 90^\circ$ ,  $\tan\theta + \cot\theta = 2$  is equal to:

- A  $30^\circ$   
 B  $60^\circ$   
 C  $45^\circ$

D  $0^\circ$

Answer: C

Explanation:

$$\text{If } \tan\theta + \cot\theta = 2$$

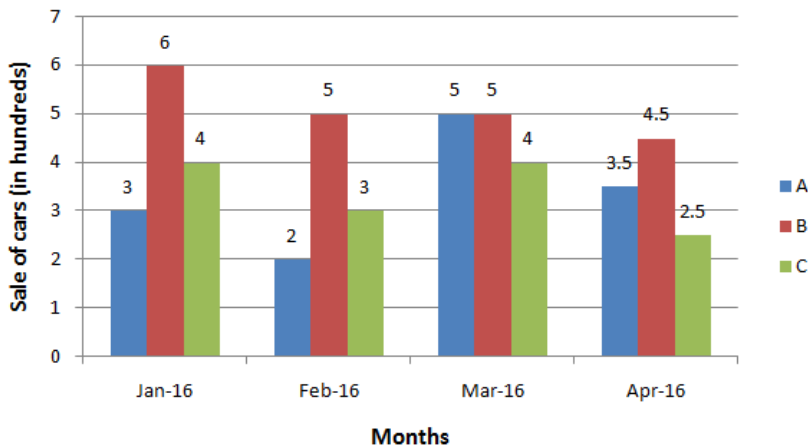
$$\text{Then } \tan\theta + \frac{1}{\tan\theta} = 2$$

If the sum of a number and its reciprocal is equal to then the number is equal to 1

$$\text{So, } \tan\theta = 1 = 45^\circ$$

Question 66

The given Bar Graph presents the sale of a particular brand of car by three showrooms, A, B and C (in multiples of 100) during the months Jan, Feb, Mar and Apr, 2016.



If the cars sold by A and B are all found to be in perfect order, but the cars sold by C were found to be defective to the extent of 15%, 10%, 8% and 6%, respectively in Jan, Feb, Mar and Apr 2016, then what is the ratio of non-defective cars sold by C to that of all cars sold by A and B during Jan-Mar 2016 ?

A 177 : 1400

B 384 : 1385

C 489 : 1300

D 255 : 1348

Answer: C

Explanation:

Total car sold by A and B in Jan, Feb and March = 2600

$$\begin{aligned} \text{Total car sold by C in Jan, Feb and March} &= 400 \times \frac{85}{100} + 300 \times \frac{90}{100} + 400 \times \frac{92}{100} \\ &= 340 + 270 + 368 = 978 \end{aligned}$$

Required ratio = 978 : 2600 = 489 : 1300.

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Question 67

Given  $a + \frac{1}{a} = 2$  what is the value of  $a^{118} + \frac{1}{a^{117}}$

A 118

B 1

C 2

D 117

Answer: C

Explanation:

If  $a + \frac{1}{a} = 2$  then  $a = 1$  and  $\frac{1}{a} = 2$

$$a^{118} + a^{\frac{1}{117}} = 1^{118} + 1^{\frac{1}{117}} = 2$$

Question 68

For a number, greater than one, the difference between itself and its reciprocal is 20% of the sum of itself and its reciprocal. By how much percentage (nearest to an integer) is the square of the number less than its cube?

A 122

B 18

C 81

D 33

Answer: B

Question 69

ABCD is a rhombus with each side being equal to 8 cm. If  $BD = 10$  cm,  $AC = 2\sqrt{x}$  cm, what is the value of  $1 + \sqrt{x}$  (by approximation)

A  $2\sqrt{3}$

B  $3\sqrt{2}$

C 7

D 5

Answer: C

Explanation:

$AO = \sqrt{x}$ ,  $BO = 5$  cm,  $AB = 8$  cm

By pythagoras theorem,  $AB^2 = BO^2 + AO^2$

$$64 = 25 + x$$

$$x = 39$$

$$1 + \sqrt{x} = 1 + \sqrt{39} = 7(\text{approx})$$

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Question 70

What is the ratio between the fourth proportional of 3, 4, 9 and the mean proportional between 2 and 98 ?

A 7:8

B 7:6

C 8:7

D 6:7

Answer: D

Explanation:

$$\text{Fourth proportional} = \frac{3}{4} = \frac{9}{x}$$

$$= 12$$

$$\text{Mean of 2, 98} = \sqrt{2 \times 98} = 14$$

$$\text{Required ratio} = 12 : 14 = 6 : 7$$

Question 71

The 10-digit number  $79x00001y6$  is exactly divisible by 88. What is the value of  $(x + 3)$ ?

A 5

B 9

C 6

D 7

Answer: B

Explanation:

$79x00001y6$  is exactly divisible by  $88 = 8 \times 11$  then it's divisible by both 8 and 11.

A number is divisible by 8 only if its last three digits must be divisible by 8, so  $1y6$  must be divisible by 8. That's only possible if  $y=3$ . So, our number is  $79x0000136$ .

Next, a number is divisible by 11 if the difference between the sum of the odd placed digits (1st, 3rd, 5th...) and the sum of the even placed digits (2nd, 4th...) must be divisible by 11.

$$\text{So, } (9 + 0 + 0 + 1 + 6) - (7 + x + 0 + 0 + 3) = 0$$

$$16 - x - 10 = 0$$

$$x = 6$$

$$x + 3 = 6 + 3 = 9$$

Question 72

The average of a series of 21 numbers is equal to 43. The average of the first eleven of them is 33. The average of the last eleven numbers is 53. The eleventh number of the series is:

A 43

B 47

C 33

D 46

Answer: A

Explanation:

$$\text{Average of 21 numbers} = 43$$

$$\text{Sum of 21 numbers} = 21 \times 43 = 903$$

$$\text{Average of 1st 11 numbers} = 33$$

$$\text{Sum of 1st 11 numbers} = 11 \times 33 = 363$$

$$\text{Average of last 11 numbers} = 53$$

Sum of last 11 numbers =  $11 \times 53 = 583$

11th number is common in both,

So, 11th number =  $583 + 363 - 903 = 43$

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### Question 73

A shopkeeper decides to raise the marked price of an article by 10%. How much discount should he allow so as to be able to sell the article at the original marked price?

A  $9\frac{1}{11}\%$

B  $8\frac{1}{9}\%$

C  $9\frac{1}{2}\%$

D 10%

Answer: A

### Explanation:

Let the M.P be Rs 100

New M.P = 110 % of 100 = Rs 110

S.P = original M.P = 100

Discount = 10

$$\text{Discount \%} = \frac{10 \times 100}{110} = 9\frac{1}{11}$$

### Question 74

What is the simplified value of

$$\left( \frac{\sin^2 31^\circ + \sin^2 59^\circ}{\sec^2 35^\circ - \cot^2 55^\circ} + \tan 29^\circ \cot 60^\circ - \operatorname{cosec}^2 61^\circ \right)$$

A 0

B -1

C  $\frac{1}{2}$

D 1

Answer: A

### Question 75

A train goes from P to Q with a speed  $w$  km/h, then from Q to R (QR = 2PQ) with a speed 3 km/h, and returns from R to P with a speed  $u$  km/h. What is the average speed (in km/h) of the train for the entire journey starting from P and back to P?

A  $\frac{18u}{23}$

B  $\frac{4u}{3}$

C  $\frac{16u}{3}$

D <sup>3u</sup>  
2

Answer: A

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### English

#### Instructions

For the following questions answer them individually

#### Question 76

Select the most appropriate antonym of the given word.

**GAUNT**

- A lean
- B bent
- C plump
- D old

Answer: C

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#### Question 77

Identify the segment in the sentence which contains the grammatical error.

The little boy was so busy playing with his toy train that he do not even look up at us.

- A busy playing with
- B he do not even
- C his toy train
- D look up at us

Answer: B

#### Question 78

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

- A. Baskets and carts flooded the street turning it into a mobile market.
- B. Hearing their cries people with bags started coming out from their ho uses.
- C. Suddenly the street came alive.
- D. From one end to the other cries of the vendors rent the air.

- A CADB
- B ABDC
- C DACB
- D CBAD

Answer: A

**Question 79**

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.

After going through their brochure I has decided to make a donation to help their campaign.

- A I decided to make a donation to help
- B No improvement
- C I decide to make a donation for helping
- D I decided for making a donation to help

**Answer: A**

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**Question 80**

Select the wrongly spelt word.

- A opulence
- B oppression
- C oppurtunity
- D opposition

**Answer: C**

**Question 81**

Select the most appropriate meaning of the given idiom in a nutshell

- A add nuts into something
- B put everything in a shell
- C packed very tightly
- D express very briefly

**Answer: D**

**Question 82**

Select the correct indirect form of the given sentence.

Mahesh said to the interviewer, "Sir, I was in charge of the production unit at my previous office."

- A Mahesh told the interviewer that Sir was in charge of the production unit at my previous office.
- B Mahesh told the interviewer I was in charge of the production unit at his previous office.
- C Mahesh told the interviewer you were in charge of the production unit at my previous office.
- D Mahesh told the interviewer that he had been in charge of the production unit at his previous office.

**Answer: D**

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Question 83

Select the most appropriate word to fill in the blank.

A fresh interest rate cut by the Reserve Bank of India would largely \_\_\_\_\_ on how the monsoon turns out in the months ahead.

- A depend
- B determine
- C define
- D demonstrate

Answer: A

Question 84

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

- A. Today flax is used to make fine linen fabric.
- B. The Neolithic man first clad himself with animal skins.
- C. He also used flax which had a good fibre for making cloth.
- D. But in those days cloth made of flax must have been very rough.

- A CADB
- B BDAC
- C DABC
- D BCDA

Answer: D

Question 85

Select the most appropriate antonym of the given word.

**VIRULENT**

- A dangerous
- B amicable
- C lethal
- D powerful

Answer: B

## SSC CHSL Previous Papers (DOWNLOAD PDF)

Question 86

Select the most appropriate meaning of the given idiom.

**be an open book**

- A one about whom it is easy to know everything
- B one who advises others to be frank and unsecretive



- C one who is fond of reading even when travelling
- D one who has written an examination without preparation

Answer: A

**Question 87**

Select the correctly spelt word.

- A tantative
- B substentive
- C remunerative
- D speculitive

Answer: C

**Question 88**

Select the most appropriate word for the given group of words  
A game in which no one wins

- A conquest
- B draw
- C triumph
- D feat

Answer: B

## SSC CGL Previous Papers (DOWNLOAD PDF)

**Question 89**

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 government has adopted a tough stance with respect of terror and security.

- A in respect of
- B about respect to
- C No improvement
- D with respect to

Answer: D

**Question 90**

Identify the segment in the sentence which contains the grammatical error.  
We will use enamel paint on this wall because it gives a best finish.

- A enamel paint on this wall
- B We will use

- C a best finish
- D because it gives

**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:

With the groundwater table receding alarmingly, an ostrich mentality will only increase water woes. Deficit rainfall (1) \_\_\_\_\_ indiscriminate extraction of ground water (2) \_\_\_\_\_ two major reasons for (3) \_\_\_\_\_ situation. Government must promote (4) \_\_\_\_\_ harvesting and conservation. Citizens must (5) \_\_\_\_\_ learn to use water judiciously or else the State will run out of water like Cape Town.

**Question 91**

Select the most appropriate option to fill in blank No.1.

- A and
- B but
- C unless
- D also

**Answer: A**

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**Question 92**

Select the most appropriate option to fill in blank No.2.

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

**Answer: D**

**Question 93**

Select the most appropriate option to fill in blank No.3.

- A the
- B those
- C a
- D their

**Answer: A**

**Question 94**

Select the most appropriate option to fill in blank No.4.

- A crop
- B seed
- C soil
- D water

Answer: D

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### Question 95

Select the most appropriate option to fill in blank No.5.

- A although
- B already
- C anyhow
- D also

Answer: D

### Instructions

For the following questions answer them individually

### Question 96

Select the most appropriate word for the given group of words  
A strong and fast moving stream of water

- A rivulet
- B creek
- C torrent
- D trickle

Answer: C

### Question 97

Select the most appropriate word to fill in the blank.

The pilgrims grew increasingly aware of the \_\_\_\_\_ of sacred Buddhist texts in the Chinese language and decided to travel to India in search of them.

- A persistence
- B parity
- C preference
- D paucity

Answer: D

**Instructions**

Select the most appropriate synonym of the given word.

**Question 98**

**MINIATURE**

- A diminutive
- B mammoth
- C colossal
- D gigantic

**Answer: A**

**Question 99**

**CAMOUFLAGE**

- A exhibit
- B disguise
- C divulge
- D expose

**Answer: B**

**Instructions**

For the following questions answer them individually

**Question 100**

**Select the correct passive form of the given sentence.**

**The cyclone has damaged several crops.**

- A Several crops are being damaged by the cyclone.
- B Several crops had been damaged by the cyclone.
- C Several crops have been damaged by the cyclone.
- D Several crops have damaged the cyclone.

**Answer: C**

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