



## SSC CHSL 14th October 2020 Shift-2

All rights reserved. No part of this publication may be reproduced, distributed, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, or stored in any retrieval system of any nature without the permission of cracku.in, application for which shall be made to [support@cracku.in](mailto:support@cracku.in)

## English Language (Basic Knowledge)

### Instructions

For the following questions answer them individually

### Question 1

Select the **INCORRECTLY** spelt word.

- A Separate
- B Marriage
- C Intriging
- D Symphony

Answer: C

**25 SSC CHSL Mocks for just Rs. 149**

### Question 2

Select the correct passive form of the given sentence.

I use baking soda to remove stains from my clothes.

- A Baking soda is used by me to remove stains from my clothes.
- B I have been using baking soda to remove stains from my clothes.
- C Baking soda was used by me to remove stains from my clothes.
- D Baking soda is being used by me to remove stains from my clothes.

Answer: A

### Question 3

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

- A. It is also very sad that ill-treatment is meted out to one of your gifts, and everyone indulges in excess!"
- B. "I can't take it anymore," he complained. "People abuse me and exploit me, and there is no respect for me - no realisation that I am your prasadam to men!"
- C. An ancient story tells us that the God of Food came before the Divine Presence, battered, exhausted, and downcast.
- D. The Lord smiled and said to him, "Those who abuse you and indulge in excess are destroying themselves."

- A CBAD
- B ACDB
- C CABD
- D BADC

Answer: A

### Question 4

Select the correct indirect form of the given sentence.

Aanya said, "I've made a rose and honey vanilla dessert for you."

- A Aanya said to me that she was making a rose and honey vanilla dessert for me.

- B** Aanya told me that she would make a rose and honey vanilla dessert for her.
- C** Aanya told me that she is making a rose and honey vanilla dessert for me.
- D** Aanya told me that she had made a rose and honey vanilla dessert for me.

**Answer:** D

## SSC CHSL Free Mock Test

### 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:

One fireman died while 14 others had a narrow escape when a part of the factory-cum-outlet of a well-known battery (1)\_\_\_\_\_ firm where they were battling a major (2)\_\_\_\_\_ collapsed following a series of sudden explosions in west Delhi. The brave fireman who had joined the department last year and got married (3)\_\_\_\_\_, was buried under a pile of debris following explosions which were (4)\_\_\_\_\_ by a compressor burst. The fireman died due to (5)\_\_\_\_\_ bleeding and smoke inhalation. It took firemen five hours to pull his body out of the debris.

### Question 5

Select the most appropriate option for blank number 1.

- A** manufactured
- B** manufacturing
- C** manufacturable
- D** manufactures

**Answer:** B

### Question 6

Select the most appropriate option for blank number 2.

- A** trouble
- B** blaze
- C** ruin
- D** fracture

**Answer:** B

### Question 7

Select the most appropriate option for blank number 3.

- A** generously
- B** eventually
- C** evidently
- D** recently

**Answer:** D

## SSC CHSL Previous Papers (DOWNLOAD PDF)

### Question 8

Select the most appropriate option for blank number 4.

- A amazed
- B triggered
- C advocated
- D horrified

Answer: B

### Question 9

Select the most appropriate option for blank number 5.

- A towering
- B lavish
- C exorbitant
- D excessive

Answer: D

### Instructions

For the following questions answer them individually

### Question 10

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'.

Doctors at the AIIMS Trauma Centre managed to save the life of 12 year old archer Shivangini, whose were struck by an arrow in the neck during a practice session.

- A who was struck
- B No improvement
- C which was struck
- D who was striked

Answer: A

## SSC CGL Previous Papers (DOWNLOAD PDF)

### Question 11

Select the most appropriate synonym of the given word.

PREJUDICE

- A Tolerance
- B Justice

- C Bias
- D Advantage

Answer: C

**Question 12**

Select the most appropriate **ANTONYM** of the given word.  
**DISAPPROVE**

- A Refuse
- B Commend
- C Oppose
- D Neglect

Answer: B

**Question 13**

Select the most appropriate word to fill in the blank.  
I found the scene of some people making fun of a beggar quite \_\_\_\_\_.

- A destructive
- B repulsive
- C admirable
- D sociable

Answer: B

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

**Question 14**

Select the **INCORRECTLY** spelt word.

- A Disapprove
- B Allegation
- C Permanent
- D Grammer

Answer: D

**Question 15**

Select the word which means the same as the group of words given.  
One who tells future from the stars

- A Astrologer
- B Philanthropist
- C Miser

D Personification

Answer: A

Question 16

Select the most appropriate ANTONYM of the given word.  
PROVOKE

A Appease

B Beckon

C Encourage

D Stimulate

Answer: A

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

Question 17

Select the most appropriate meaning of the given idiom.  
Jump on the bandwagon

A Do something because circumstances force you to

B Get involved in an activity because it is likely to succeed

C Get engaged in an activity that is very important

D Do an activity that is fun

Answer: B

Question 18

In the given sentence, identify the segment which contains the grammatical error.  
The performance of our players is worst than I had expected.

A The performance

B our players

C I had

D worst than

Answer: D

Question 19

Select the most appropriate meaning of the given idiom.  
Add insult to injury

A Hurt someone physically

B Make a bad situation even worse

C Say words that are very offensive

D Play a prank on someone

Answer: B

## SSC CHSL Study Material

### Question 20

Select the most appropriate synonym of the given word.

PERSECUTION

A Affliction

B Perfection

C Oppression

D Stimulation

Answer: C

### Question 21

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

A panel has been formed to look within the security needs of college students.

A of college students

B the security needs

C to look within

D has been formed

Answer: C

### Question 22

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'.

She is quite capable of looking after herself, aren't she?

A isn't she

B won't she

C No improvement

D wasn't she

Answer: A

## SSC CHSL Free App

### Question 23

Select the most appropriate word to fill in the blank.

The scientist, who is known for his \_\_\_\_\_ ideas on space travel, is much admired.

A anarchist

- B ridiculous
- C revolutionary
- D malicious

**Answer: C**

**Question 24**

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

**Movement of people or animals from one area to another**

- A Acclimatisation
- B Migration
- C Population
- D Diversification

**Answer: B**

**Question 25**

Given below are four jumbled sentences. Pick the option that gives their correct order.

- A. When we wish to achieve something, we cannot expect success in a moment.
- B. It is the same with any great achievement.
- C. It took several years to build Rome and bring it to the state of glory.
- D. Rome, the greatest city of ancient world was not built in a short time.

- A ABCD
- B CDAB
- C BACD
- D DCBA

**Answer: A**

## Daily Free SSC Practice Set

### General Intelligence

**Instructions**

For the following questions answer them individually

**Question 26**

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

1. Elbow
2. Shoulders
3. Eyes
4. Feet
5. Knee

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



D 3, 5, 4, 1, 2

**Answer:** C

**Explanation:**

Given words are body parts of Human Body

∴ The meaningful order from top to bottom of the Human Body is Eyes, Shoulders, Elbow, Knee, Feet

Hence, the correct answer is Option C

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

**Question 27**

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

a \_ ccde \_ \_ bc \_ \_ eaabc \_ \_ \_ aabc \_ ee

A abbaacdeecdec

B abeaacdecdeecd

C acbdecdeaacecd

D abcdecdeecdeaa

**Answer:** B

**Explanation:**

By Trial and Error method,

Option A

aabccdeb | aabccdee | aabccede | aabccdee

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

Option B

aabccdee | aabccdee | aabccdee | aabccdee

The above letters form a series.

Hence, the correct answer is Option B

**Question 28**

Four letter-clusters have been given out of which three are alike in some manner and one is different. Select the odd one.

A OMANI

B EVOLV

C AMANA

D UGALI

**Answer:** B

**Explanation:**

In the letter-clusters OMANI, AMANA, UGALI the letters are in the order of Vowel and Consonant consecutively

In EVOLV, the fifth letter is consonant but as per the above condition the fifth letter has to be Vowel.

∴ EVOLV is the odd one among the given letter-clusters

Hence, the correct answer is Option B

Question 29

In a grocery shop the number of vegetables is three times the number of fruits. Which among the following number correctly represents the total number of fruits and vegetables in the shop?

- A 42
- B 60
- C 50
- D 39

Answer: B

Explanation:

Let the number of fruits =  $a$

Number of vegetables is three times the number of fruits

$\Rightarrow$  Number of vegetables =  $3a$

Total number of fruits and vegetables in the shop =  $a + 3a = 4a$

Total number of fruits and vegetables in the shop is multiple of 4.

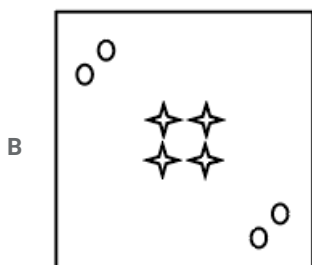
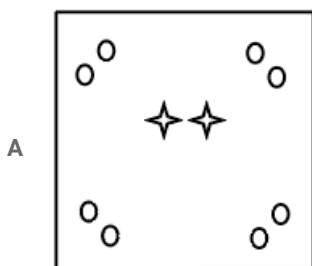
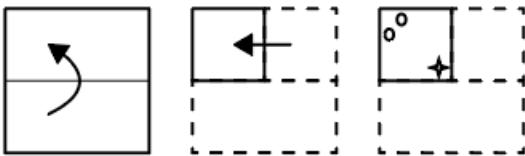
Among the given Options only 60 satisfies the condition.

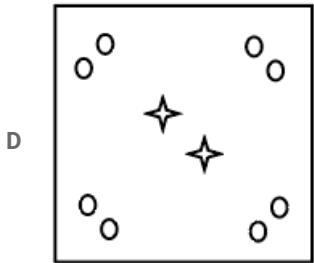
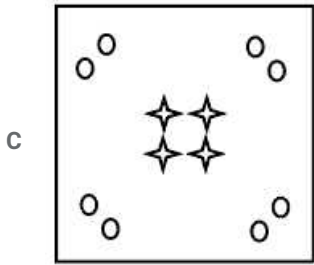
Hence, the correct answer is Option B

## 1500+ Very Important Free SSC Solved Questions

Question 30

The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the following figures. How would this paper look when unfolded?





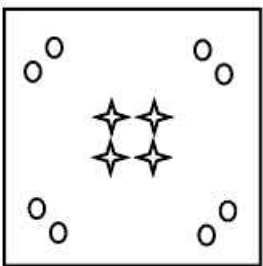
Answer: C

**Explanation:**

When the paper is unfolded, the pattern of cutting will be similar in the four quadrants.

There will be four stars at the centre placed similarly. The two circles will be at four edges of the square.

∴ When the paper is unfolded it appears as shown below



Hence, the correct answer is Option C

**Question 31**

Introducing Shikha, Arvind said, "The only daughter of her mother is my son's wife". How is Arvind related to Shikha?

- A Mother
- B Father-in-Law
- C Father
- D Uncle

Answer: B

**Explanation:**

From the statement, Shikha is female and the only daughter of her mother represents Shikha. So Arvind said that Shikha is his son's wife.

∴ Arvind is Father-in-Law of Shikha

Hence, the correct answer is Option B

**Question 32**

Select the number that can replace the question mark (?) in the following series.

8, 11, 15, 23, 40, 73, ?

- A 113

B 131

C 93

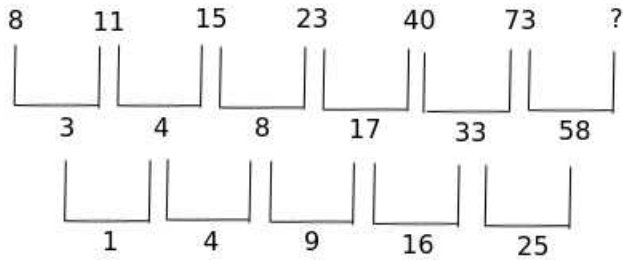
D 122

**Answer: B**

**Explanation:**

Given series is 8, 11, 15, 23, 40, 73, ?

The logic here is difference of differences of the numbers are the consecutive squares as shown below



The next square number will be 25 and the difference between required number and 73 should be 58.

∴ Required number = 73 + 58 = 131

Hence, the correct answer is Option B

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

**Question 33**

Four words have been given out of which three are alike in some manner and one is different. Select the odd one.

A Oyster

B Shark

C Salmon

D Cod

**Answer: A**

**Explanation:**

Shark, Salmon, Cod are different kind of fish whereas Oyster is not a fish.

∴ Oyster is the odd one among the given words

Hence, the correct answer is Option A

**Question 34**

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.

Sheep : Flock

A River : Sea

B City : District

C Fish : Shoal

D Man : Human

**Answer: C**

**Explanation:**

Group of Sheep is called Flock

Similarly, group of Fish is called Shoal

∴ Fish and Shoal are related in the same way Sheep and Flock are related

Hence, the correct answer is Option C

**Question 35**

Four numbers have been given, out of which three are alike in some manner and one is different. Select the odd one.

- A 8
- B 9
- C 529
- D 49

**Answer:** A

**Explanation:**

9, 529, 49 are squares of 3, 23, 7 respectively whereas 8 is not a square.

∴ 8 is the odd one among the given numbers

Hence, the correct answer is Option A

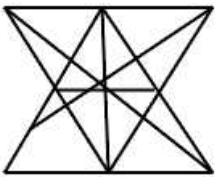
**Latest Job Updates on Telegram - Join here**

**Question 36**

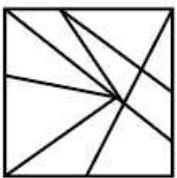
Select the option in which the given figure is embedded (rotation is not allowed).



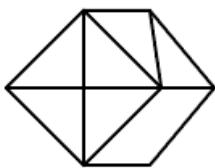
A



B



C



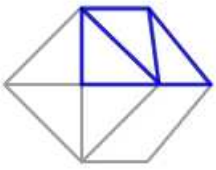
D



**Answer: C**

**Explanation:**

The given figure is embedded in the third figure as shown below



Hence, the correct answer is Option C

**Question 37**

Select the option that is related to the third term in the same way as the second term is related to the first term.

**JUST : IWPX :: AWAY : ?**

**A** ZYXC

**B** WYAA

**C** AYWC

**D** AAYW

**Answer: A**

**Explanation:**

Here the logic is

$$J - 1 = I$$

$$U + 2 = W$$

$$S - 3 = P$$

$$T + 4 = X$$

Similarly,

$$A - 1 = Z$$

$$W + 2 = Y$$

$$A - 3 = X$$

$$Y + 4 = C$$

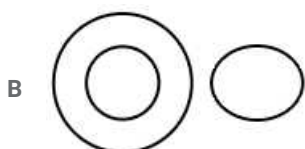
∴ ZYXC is related to AWAY in the same way IWPX is related to JUST

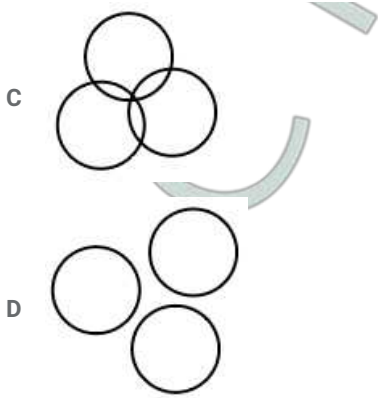
Hence, the correct answer is Option A

**Question 38**

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

**Animals, Cows, Dogs**



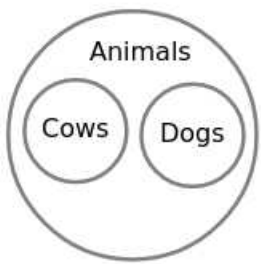


Answer: A

**Explanation:**

Cows and Dogs are different Animals.

∴ The Venn diagram that best represents the relationship between the following classes is

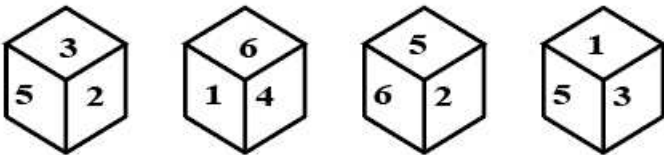


Hence, the correct answer is Option A

**Join SSC Daily Quiz Telegram Group**

**Question 39**

Four different positions of the same dice are shown. Select the number that will be on the face opposite to the one having 5.



A 1

B 4

C 6

D 2

Answer: B

**Explanation:**

From the first position of dice, 5 is not opposite to 3 and 2

From the third position of dice, 5 is not opposite to 6

From the fourth position of dice, 5 is not opposite to 1

⇒ 5 is not opposite to 1, 2, 3, 6

∴ 5 is opposite to the remaining number 4

Hence, the correct answer is Option B

**Question 40**

Select the number that can replace the question mark (?) in the following series.

8, 17, 9, 19, 10, 21, ?, ?

A 11, 22

B 11, 24

C 11, 23

D 10, 23

**Answer:** C

**Explanation:**

Given series is alternate series with two series are 8, 9, 10, ..... and 17, 19, 21, .....

The next number for the first series is 11

The next number for the second series is 23

∴ The given series is 8, 17, 9, 19, 10, 21, 11, 23

Hence, the correct answer is Option C

**Question 41**

Select the option that is related to the fourth term in the same way as the first term is related to the second term.

TIGER : CAT :: ? : DOG

A Jaguar

B Fox

C Lion

D Lynx

**Answer:** B

**Explanation:**

Tiger and Cat are closely-related and similar species similarly Fox and Dog are closely-related and similar species.

∴ Fox is related to Dog in the same way Tiger is related to Cat

Hence, the correct answer is Option B

**25 SSC CHSL Mocks for just Rs. 149**

**Question 42**

How many triangles are there in the given figure?



A 25

B 20



C 27

D 38

Answer: D

**Question 43**

If in a certain code language, SITUATION is written as 133 and RIGHT is written as 67, then how will CONSTITUTION be written as in that language?

A 167

B 179

C 184

D 132

Answer: C

**Explanation:**

Given, SITUATION is written as 133 and RIGHT is written as 67 in the code language

The logic here is

$$S + I + T + U + A + T + I + O + N + 5 = 19 + 9 + 20 + 21 + 1 + 20 + 9 + 15 + 14 + 5 = 133$$

$$R + I + G + H + T + 5 = 18 + 9 + 7 + 8 + 20 + 5 = 67$$

The code value is the sum of the values of letters and 5

Similarly,

$$C + O + N + S + T + I + T + U + T + I + O + N + 5 = 3 + 15 + 14 + 19 + 20 + 9 + 20 + 21 + 9 + 15 + 14 + 5 = 184$$

∴ CONSTITUTION is written as 184 in the code language

Hence, the correct answer is Option C

**Question 44**

In a certain code language, LIFE is written as MOGI. How will SOUP be written as in the same language?

A TUVQ

B TUAQ

C TATU

D TUOQ

Answer: B

**Explanation:**

Given, LIFE is written as MOGI in the code language

The logic here is next vowel is coded for the vowel and the next consonant is coded for the consonant.

∴ SOUP is coded as TUAQ in the code language

Hence, the correct answer is Option B

**SSC CHSL Free Mock Test**

Question 45

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



Answer: C

**Explanation:**

In the given figure series, the black triangle is moving two places in the anti clockwise direction.

∴ The figure that will come next in the given figure series is

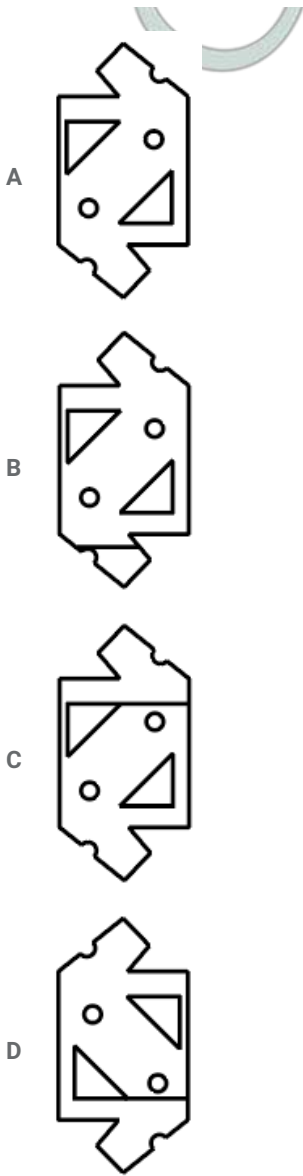


Hence, the correct answer is Option C

Question 46

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





Answer: A

**Explanation:**

When a mirror is placed on the right side of the figure,

The facing of the figure to the left and right direction changes to opposite direction in mirror image(right facing changes to left and vice versa). There won't be change in shape of the figure.

∴ The mirror image of the given figure is



Hence, the correct answer is Option A

**Question 47**

Select the option in which the number set shares the same relationship as that shared by the given number set.

(2, 41, 7)

A (9, 92, 11)

- B (6, 36, 9)  
 C (4, 57, 11)  
 D (8, 81, 11)

**Answer:** C

**Explanation:**

$$2^3 + 41 = 8 + 41 = 49 = 7^2$$

Square of third number is equal to the sum of second number and cube of first number

Similarly,

$$4^3 + 57 = 64 + 57 = 121 = 11^2$$

∴ (4, 57, 11) are related in the same way as (2, 41, 7) related

Hence, the correct answer is Option C

## SSC CHSL Previous Papers (DOWNLOAD PDF)

**Question 48**

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

$$6 + 7 \times 8 - 21 \div 7 = 47$$

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

**Answer:** D

**Explanation:**

By Trial and Error method,

Option A

$$6 - 7 \times 8 + 21 \div 7 = 47$$

$$6 - 7 \times 8 + 3 = 47$$

$$6 - 56 + 3 = 47$$

$$-47 = 47$$

Hence Option A is incorrect

Option B

$$6 + 7 \div 8 - 21 \times 7 = 47$$

$$6 + \frac{7}{8} - 21 \times 7 = 47$$

The value will be decimal after solving which is not possible

Option C

$$6 + 7 \times 8 \div 21 - 7 = 47$$

$$6 + 7 \times \frac{8}{21} - 7 = 47$$

$$6 + \frac{8}{3} - 7 = 47$$

The value will be decimal after solving which is not possible

Option D

$$6 \times 7 + 8 - 21 \div 7 = 47$$

$$6 \times 7 + 8 - 3 = 47$$

$$42 + 8 - 3 = 47$$

$$47 = 47$$

Hence, the correct answer is Option D

**Question 49**

Select the option that is related to the third number in the same way as the second number is related to the first number  
10 : 1010 :: 11 : ?

A 131

B 1342

C 132

D 1320

**Answer: B**

**Explanation:**

$$1010 = 10 + 1000 = 10 + 10^3$$

Second number is the sum of first number and cube of first number

Similarly,

$$11 + 11^3 = 11 + 1331 = 1342$$

∴ 1342 is related to 11 in the same way 1010 is related to 10

Hence, the correct answer is Option B

**Question 50**

Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

**Statements:**

I. Some books are tables.

II. All tables are chairs.

**Conclusions:**

I. All books are chairs.

II. Some books are chairs.

III. Some tables are book.

IV. All chairs are book.

A Only conclusions I and IV follow.

B Only conclusions II, III and IV follow.

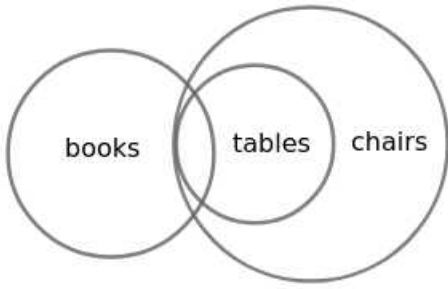
C Only conclusions II and III follow.

D Only conclusion I follows.

**Answer: C**

**Explanation:**

The basic diagram for the given statements is



I. All books are chairs

From the basic diagram, all books are not chairs. Hence conclusion I do not follow.

II. Some books are chairs

From the basic diagram, some books are chairs. Hence conclusion II follows.

III. Some tables are book

From the basic diagram, some tables are book. Hence conclusion III follows.

IV. All chairs are book

From the basic diagram, all chairs are not book. Hence conclusion IV do not follow.

∴ Only conclusions II and III follow the given statements

Hence, the correct answer is Option C

## SSC CGL Previous Papers (DOWNLOAD PDF)

### Quantitative Aptitude(Basic Arithmetic Skill)

#### Instructions

For the following questions answer them individually

#### Question 51

If  $\frac{3^{a+3} \times 4^{a+6} \times 25^{a+1}}{27^{a-1} \times 8^{a-2} \times 125^{a+4}} = \frac{4}{15^{26}}$ , then the value of  $\sqrt{a+9}$  is:

A 5

B 6

C 8

D 4

Answer: A

#### Explanation:

$$\frac{3^{a+3} \times 4^{a+6} \times 25^{a+1}}{27^{a-1} \times 8^{a-2} \times 125^{a+4}} = \frac{4}{15^{26}}$$

$$\frac{3^{a+3} \times 2^{2(a+6)} \times 5^{2(a+1)}}{3^{3(a-1)} \times 2^{3(a-2)} \times 5^{3(a+4)}} = \frac{2^2}{3^{26} \times 5^{26}}$$

$$\frac{3^{a+3} \times 2^{2a+12} \times 5^{2a+2}}{3^{3a-3} \times 2^{3a-6} \times 5^{3a+12}} = \frac{2^2}{3^{26} \times 5^{26}}$$

$$\frac{2^{2a+12-3a+6}}{3^{3a-3-a-3} \times 5^{3a+12-2a-2}} = \frac{2^2}{3^{26} \times 5^{26}}$$

$$\frac{2^{-a+18}}{3^{2a-6} \times 5^{a+10}} = \frac{2^2}{3^{26} \times 5^{26}}$$

Comparing both sides

$$-a + 18 = 2$$

$$\Rightarrow a = 16$$

$$\therefore \sqrt{a+9} = \sqrt{16+9} = \sqrt{25} = 5$$

Hence, the correct answer is Option A

## SSC CGL Free Mock Test (Latest Pattern)

### Question 52

The value of  $5\sqrt{3} + 7\sqrt{2} - \sqrt{6} - \sqrt{2+\sqrt{3}+\sqrt{6}}$  is:

- A 16
- B 0
- C 10
- D 12

Answer: D

Explanation:

$$\begin{aligned} 5\sqrt{3} + 7\sqrt{2} - \sqrt{6} - \sqrt{2+\sqrt{3}+\sqrt{6}} &= 5\sqrt{3} + 7\sqrt{2} - \sqrt{6} - \sqrt{2+\sqrt{3}+\sqrt{6}} \times \frac{\sqrt{2+\sqrt{3}-\sqrt{6}}}{\sqrt{2+\sqrt{3}-\sqrt{6}}} \\ &= 5\sqrt{3} + 7\sqrt{2} - \sqrt{6} - \frac{23(\sqrt{2+\sqrt{3}-\sqrt{6}})}{(\sqrt{2+\sqrt{3}})^2 - (\sqrt{6})^2} \\ &= 5\sqrt{3} + 7\sqrt{2} - \sqrt{6} - \frac{23(\sqrt{2+\sqrt{3}-\sqrt{6}})}{2+3+2\sqrt{6}-6} \\ &= 5\sqrt{3} + 7\sqrt{2} - \sqrt{6} - \frac{23(\sqrt{2+\sqrt{3}-\sqrt{6}})}{2\sqrt{6}-1} \\ &= 5\sqrt{3} + 7\sqrt{2} - \sqrt{6} - \frac{23(\sqrt{2+\sqrt{3}-\sqrt{6}})}{2\sqrt{6}-1} \times \frac{2\sqrt{6}+1}{2\sqrt{6}+1} \\ &= 5\sqrt{3} + 7\sqrt{2} - \sqrt{6} - \frac{23(\sqrt{2+\sqrt{3}-\sqrt{6}})(2\sqrt{6}+1)}{(2\sqrt{6})^2 - 1^2} \\ &= 5\sqrt{3} + 7\sqrt{2} - \sqrt{6} - \frac{23(\sqrt{2+\sqrt{3}-\sqrt{6}})(2\sqrt{6}+1)}{24-1} \\ &= 5\sqrt{3} + 7\sqrt{2} - \sqrt{6} - \frac{23(2\sqrt{12} + \sqrt{2} - 2\sqrt{18} + \sqrt{3} - 12 - \sqrt{6})}{23} \\ &= 5\sqrt{3} + 7\sqrt{2} - \sqrt{6} - 4\sqrt{3} - \sqrt{2} - 6\sqrt{2} - \sqrt{3} + 12 + \sqrt{6} \\ &= 12 \end{aligned}$$

Hence, the correct answer is Option D

### Question 53

A man takes a loan of some amount at some rate of simple interest. After three years, the loan amount is doubled and rate of interest is decreased by 2%. After 5 years, if the total interest paid on the whole is ₹13,600, which is equal to the same when the first amount was taken for  $11\frac{1}{3}$  years, then the loan taken initially is:

- A ₹13,600
- B ₹12,500
- C ₹12,000
- D ₹10,000

Answer: D

**Explanation:**

Let the principal amount = P

Rate of interest = R

According to the question

$$\frac{P \times 3 \times R}{100} + \frac{2P \times 5 \times (R-2)}{100} = 13600$$

$$\Rightarrow \frac{3PR}{100} + \frac{10PR}{100} - \frac{20P}{100} = 13600$$

$$\Rightarrow \frac{13PR}{100} - \frac{20P}{100} = 13600 \dots\dots\dots(1)$$

Given, interest on P after  $11\frac{1}{3}$  years at the rate of R% = ₹ 13,600

$$\Rightarrow \frac{P \times \frac{34}{3} \times R}{100} = 13600$$

$$\Rightarrow PR = 120000$$

Substituting PR = 120000 in equation (1)

$$\frac{13 \times 120000}{100} - \frac{20P}{100} = 13600$$

$$\Rightarrow 15600 - \frac{P}{5} = 13600$$

$$\Rightarrow \frac{P}{5} = 15600 - 13600$$

$$\Rightarrow \frac{P}{5} = 2000$$

$$\Rightarrow P = 10000$$

∴ Loan taken initially = ₹ 10,000

Hence, the correct answer is Option D

**Question 54**

If  $x + y = 14$ ;  $x^3 + y^3 = 1064$ , then the value of  $(x - y)^2$  is:

- A 36
- B 64
- C 81
- D 100

**Answer: A**

**Explanation:**

Given,  $x + y = 14$

$$x^3 + y^3 = 1064$$

$$\Rightarrow (x + y)(x^2 + y^2 - xy) = 1064$$

$$\Rightarrow 14(x^2 + y^2 + 2xy - 3xy) = 1064$$

$$\Rightarrow (x + y)^2 - 3xy = 76$$

$$\Rightarrow (14)^2 - 3xy = 76$$

$$\Rightarrow 196 - 3xy = 76$$

$$\Rightarrow 3xy = 120$$

$$\Rightarrow xy = 40$$

$$\therefore (x - y)^2 = x^2 + y^2 - 2xy$$

$$= x^2 + y^2 + 2xy - 4xy$$



$$\begin{aligned}
 &= (x + y)^2 - 4xy \\
 &= (14)^2 - 4(40) \\
 &= 196 - 160 \\
 &= 36
 \end{aligned}$$

Hence, the correct answer is Option A

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

### Question 55

If  $\tan^4 x - \tan^2 x = 1$ , then the value of  $\sin^4 x + \sin^2 x$  is:

- A 1
- B  $\frac{1}{2}$
- C  $\frac{3}{4}$
- D  $\frac{3}{2}$

Answer: A

#### Explanation:

$$\begin{aligned}
 \tan^4 x - \tan^2 x &= 1 \\
 \Rightarrow \tan^4 x &= 1 + \tan^2 x \\
 \Rightarrow \tan^4 x &= \sec^2 x \\
 \Rightarrow \tan^2 x &= \sec x \\
 \Rightarrow \frac{\sin^2 x}{\cos^2 x} &= \frac{1}{\cos x} \\
 \Rightarrow \sin^2 x &= \cos x \\
 \therefore \sin^4 x + \sin^2 x &= (\sin^2 x)^2 + \sin^2 x \\
 &= (\cos x)^2 + \sin^2 x \\
 &= \cos^2 x + \sin^2 x \\
 &= 1
 \end{aligned}$$

Hence, the correct answer is Option A

### Question 56

Which of the following values suits for A to make the equation  $A \tan 62^\circ \sec 28^\circ \cot 38^\circ \operatorname{cosec} 62^\circ \tan 11^\circ = 1$  true?

- A  $\frac{\tan 28^\circ \tan 79^\circ}{\tan 38^\circ}$
- B  $\frac{\tan 38^\circ \tan 79^\circ}{\tan 28^\circ}$
- C  $\frac{\tan 28^\circ \tan 38^\circ}{\tan 79^\circ}$
- D  $\frac{\tan 38^\circ}{\tan 79^\circ \tan 28^\circ}$

Answer: C

#### Explanation:

$$A \tan 62^\circ \sec 28^\circ \cot 38^\circ \operatorname{cosec} 62^\circ \tan 11^\circ = 1$$

$$\Rightarrow \frac{A \tan 62^\circ \sec(90-68)^\circ \cot 38^\circ}{\operatorname{cosec} 62^\circ \tan 11^\circ} = 1$$

$$\Rightarrow \frac{A \tan 62^\circ \operatorname{cosec} 62^\circ \cot 38^\circ}{\operatorname{cosec} 62^\circ \tan 11^\circ} = 1$$

$$\Rightarrow \frac{A \tan 62^\circ \cot 38^\circ}{\tan 11^\circ} = 1$$

$$\Rightarrow A = \frac{\tan 11^\circ}{\tan 62^\circ \cot 38^\circ}$$

$$\Rightarrow A = \frac{\cot 62^\circ \tan 38^\circ}{\cot 11^\circ}$$

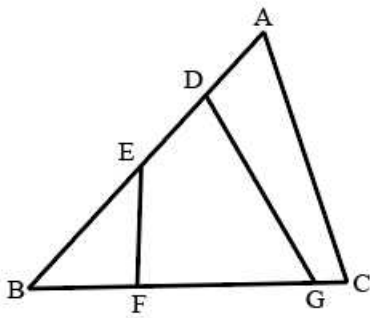
$$\Rightarrow A = \frac{\cot(90-28)^\circ \tan 38^\circ}{\cot(90-79)^\circ}$$

$$\Rightarrow A = \frac{\tan 28^\circ \tan 38^\circ}{\tan 79^\circ}$$

Hence, the correct answer is Option C

### Question 57

In the given figure, if  $AD = 3$ ,  $DE = 4$ ,  $AB = 12$ ,  $BF = 2$ ,  $FG = 6$ ,  $BC = 10$ , then the value of  $\frac{M}{N}$  is:  
(Assume: M is the area of the quadrilateral FGDE and N is the area of the triangle ABC.)



A  $\frac{1}{2}$

B  $\frac{1}{3}$

C  $\frac{25}{49}$

D  $\frac{31}{60}$

Answer: D

## SSC CHSL Study Material

### Question 58

A crate of fruits contains one spoiled fruit for every 25 fruits. 60% of the spoiled fruits were sold. If the seller had sold 48 spoiled fruits, then the number of fruits in the crate were:

A 3000

B 2000

C 1200

D 2400

Answer: B

#### Explanation:

Given, number of spoiled fruits sold = 48

Let the number of spoiled fruits = a

60% of the spoiled fruits were sold

$$\Rightarrow \frac{60}{100} \times a = 48$$

$$\Rightarrow a = 80$$

Number of spoiled fruits =  $a = 80$

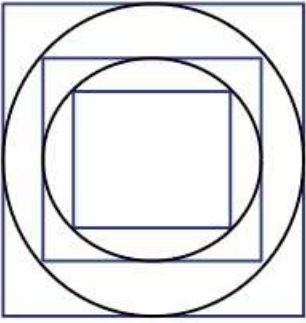
The crate of fruits contains one spoiled fruit for every 25 fruits

$$\therefore \text{Total number of fruits} = 25 \times 80 = 2000$$

Hence, the correct answer is Option B

### Question 59

In the given figure, the ratio of the area of the largest square to that of the smallest square is:



A 4 : 1

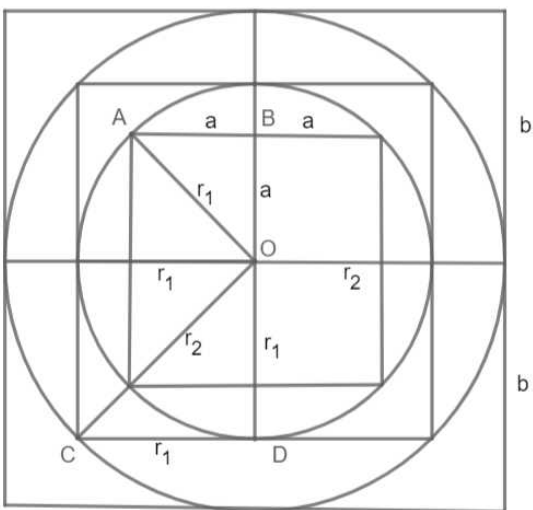
B 3 : 1

C 2 : 1

D  $\sqrt{2} : 1$

Answer: A

Explanation:



From the figure,

$$r_2 = b$$

From  $\triangle OAB$ ,

$$r_1^2 = a^2 + a^2$$

$$\Rightarrow r_1^2 = 2a^2$$

$$\Rightarrow a^2 = \frac{r_1^2}{2}$$

From  $\triangle OCD$ ,

$$r_2^2 = r_1^2 + r_1^2$$

$$\Rightarrow r_2^2 = 2r_1^2$$

$\therefore$  Ratio of the area of the largest square to that of smallest square =  $(2b)^2 : (2a)^2 = b^2 : a^2$

$$= r_2^2 : r_1^2$$

$$= 2r_1^2 : r_1^2$$

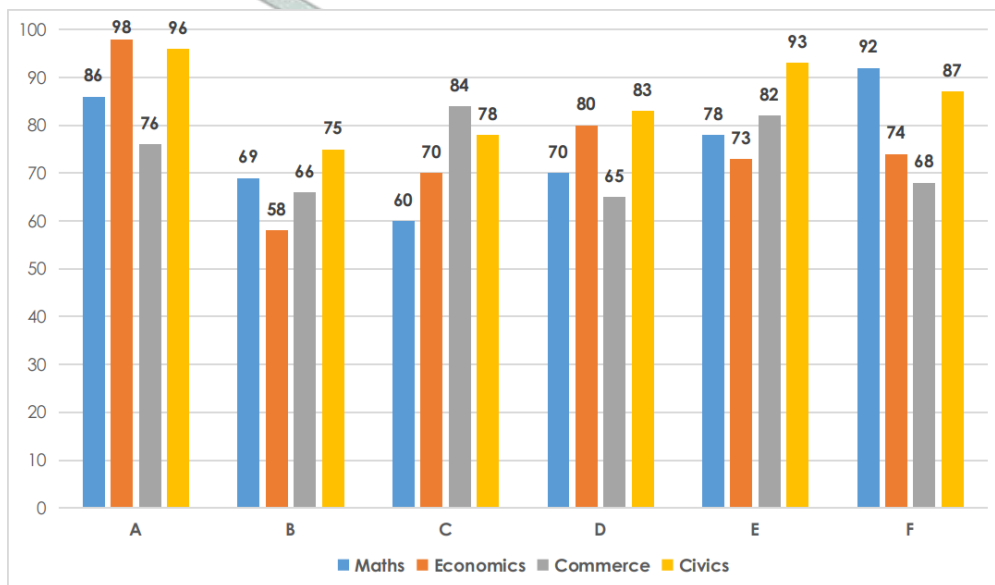
$$= 2 : 1$$

$$= 4 : 1$$

Hence, the correct answer is Option A

### Question 60

The following bar graph shows the marks (out of 100) of students A, B, C, D, E and in the subjects mentioned.



Based on this, only 2 students crossed the average marks in the subject:

- A Maths
- B Commerce
- C Civics
- D Economics

**Answer: D**

#### Explanation:

From the bar graph,

$$\text{Average marks of students in Maths} = \frac{86+69+60+70+78+92}{6} = \frac{455}{6} = 75.834$$

$$\text{Average marks of students in Economics} = \frac{98+58+70+80+73+74}{6} = \frac{453}{6} = 75.5$$

$$\text{Average marks of students in Commerce} = \frac{76+66+84+65+82+68}{6} = \frac{441}{6} = 73.5$$

$$\text{Average marks of students in Civics} = \frac{96+75+78+83+93+87}{6} = \frac{512}{6} = 85.34$$

$\therefore$  Only 2 students crossed the average marks in the subject Economics

Hence, the correct answer is Option D

## SSC CHSL Free App

### Question 61

Water flows into a tank  $180 \text{ m} \times 140 \text{ m}$  through a rectangular pipe of  $1.2 \text{ m} \times 0.75 \text{ m}$  at a rate of  $15 \text{ km/h}$ . In what time will the water rise by  $4 \text{ m}$ ?

- A 7 hours 28 minutes
- B 6 hours 42 minutes
- C 8 hours 12 minutes
- D 5 hours 46 minutes

**Answer:** A

#### Explanation:

Given,

Dimensions of the tank =  $180 \text{ m} \times 140 \text{ m}$

Dimensions of the rectangular pipe =  $1.2 \text{ m} \times 0.75 \text{ m}$

Rate of water flow =  $15 \text{ km/h} = 15 \times \frac{5}{18} \text{ m/s} = \frac{25}{6} \text{ m/s}$

$\therefore$  Time required to rise the water by  $4 \text{ m} = \frac{180 \times 140 \times 4}{1.2 \times 0.75 \times \frac{25}{6}}$

$$= \frac{180 \times 140 \times 4 \times 6 \times 10 \times 100}{12 \times 75 \times 25}$$

$$= 26880 \text{ sec}$$

$$= \frac{26880}{3600} \text{ hr}$$

$$= \frac{112}{15} \text{ hr}$$

$$= 7 \frac{7}{15} \text{ hr}$$

$$= 7 \text{ hr} + \frac{7}{15} \times 60 \text{ min}$$

$$= 7 \text{ hr } 28 \text{ min}$$

Hence, the correct answer is Option A

### Question 62

A train travels the distance between stations P and Q at a speed of  $126 \text{ km/h}$ , while in the opposite direction it comes back at  $90 \text{ km/h}$ . Another train travels the same distance at the average speed of the first train. The time taken by the second train to travel  $525 \text{ km}$  is:

- A 4 hours 20 min
- B 5 hours 20 min
- C 5 hours
- D 4 hours

**Answer:** C

#### Explanation:

Let the distance between stations P and Q =  $d$

Time taken by the first train to travel from P to Q =  $\frac{d}{126}$

Time taken by the first train to travel from Q to P =  $\frac{d}{90}$

Average speed of the first train =  $\frac{\text{Total distance}}{\text{Total time}} = \frac{2d}{\frac{d}{126} + \frac{d}{90}} = \frac{2 \times 126 \times 90}{126 + 90} = \frac{2 \times 126 \times 90}{216} = 105 \text{ km/h}$

Given, Average speed of the second train is same as that of first train

$\Rightarrow$  Average speed of the second train = 105 km/h

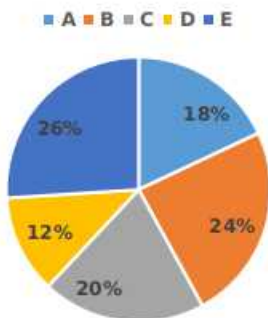
$\therefore$  The time taken by the second train to travel 525 km =  $\frac{525}{105} = 5$  hours

Hence, the correct answer is Option C

### Question 63

The given pie chart shows the percentage of students enrolled for the courses A, B, C, D and E in a university and the table shows the percentage of students that passed out of the enrolled students.

#### % Students Enrolled



Courses	% Passed out
A	76
B	82
C	80
D	90
E	75

If the total number of students is 60000, then the total number of students who did not pass in the courses A,C is:

- A 7852
- B 4992
- C 8254
- D 7628

**Answer: B**

#### Explanation:

Given,

Total number of students = 60000

Number of students who enrolled for the course A =  $\frac{18}{100} \times 60000 = 10800$

Number of students who didn't pass in course A =  $\frac{24}{100} \times 10800 = 2592$

Number of students who enrolled for the course C =  $\frac{20}{100} \times 60000 = 12000$

Number of students who didn't pass in course C =  $\frac{20}{100} \times 12000 = 2400$

$\therefore$  Number of students who didn't pass in courses A and C =  $2592 + 2400 = 4992$

Hence, the correct answer is Option B

## Daily Free SSC Practice Set

### Question 64

The difference between the selling prices of some articles if sold for ₹12 instead of ₹9 is ₹150. If the cost price of these articles is ₹250, then find the selling price of 21 articles if profit earned is 20%.

- A ₹126
- B ₹125
- C ₹130
- D ₹136

**Answer: A**

#### Explanation:

Let the number of articles =  $n$

Difference between the selling price of articles if sold for ₹12 instead of ₹9 = ₹150

$$\Rightarrow 12n - 9n = 150$$

$$\Rightarrow 3n = 150$$

$$\Rightarrow n = 50$$

Number of articles = 50

Given, Cost price of 50 articles = ₹250

$$\Rightarrow \text{Cost price of 1 article} = ₹5$$

$$\Rightarrow \text{Cost price of 21 articles} = 21 \times 5 = ₹105$$

Profit% = 20%

$$\therefore \text{Selling price of 21 articles} = \frac{120}{100} \times 105 = ₹126$$

Hence, the correct answer is Option A

### Question 65

If the 8-digit number  $1a765b12$  is to be divisible by 72, the least value of  $(2a + 3b)$  is:

- A 11
- B 10
- C 9
- D 12

**Answer: A**

#### Explanation:

$a$  and  $b$  are digits of the number

$$\Rightarrow 0 \leq a \leq 9 \text{ and } 0 \leq b \leq 9$$

$$\Rightarrow 0 \leq a + b \leq 18 \dots\dots\dots(1)$$

Given, the number  $1a765b12$  is divisible by 72

$$\Rightarrow \text{The number is divisible by both 9 and 8}$$

If a number is divisible by 9 then the sum of the digits of the number is divisible by 9

$$\Rightarrow 1+a+7+6+5+b+1+2 \text{ is divisible by 9}$$

$\Rightarrow 22+a+b$  is divisible by 9 .....(2)

From (1) and (2), the possible values of  $a+b = 5, 14$

For the minimum value of  $2a+3b$ , value of  $a+b = 5$  .....(3)

If a number is divisible by 8 then the last three digits of the number is divisible by 8

$\Rightarrow b12$  is divisible by 8

The possible values of  $b$  are 1,3,5,7,9

Substituting value of  $b$  in equation (3)

when  $b = 1$ ,  $a = 5-1 = 4$

when  $b = 3$ ,  $a = 5-2 = 3$

when  $b = 5$ ,  $a = 5-5 = 0$

when  $b$  is 7,9 the value of  $a$  is negative which not possible

The value of  $2a+3b$  when  $a = 4$  and  $b = 1$  is  $2(4)+3(1)=11$

The value of  $2a+3b$  when  $a = 3$  and  $b = 3$  is  $2(3)+3(3)=15$

The value of  $2a+3b$  when  $a = 0$  and  $b = 5$  is  $2(0)+3(5)=15$

$\therefore$  The minimum value of  $2a+3b = 11$

Hence, the correct answer is Option A

#### Question 66

If 27 people, working 8 hours a day, can complete a task in 12 days, then in how many days will 18 people finish the task, working 9 hours a day?

A 15 days

B 20 days

C 16 days

D 18 days

Answer: C

#### Explanation:

Given,

27 people working 8 hours a day can complete the task in 12 days

$\Rightarrow M_1 = 27, d_1 = 12, h_1 = 8$

Let 18 people working 9 hours a day can complete the task in  $d_2$  days

$\Rightarrow M_2 = 18, h_2 = 9$

Let the total work =  $W$

we know that  $\frac{M_1 \times d_1 \times h_1}{W_1} = \frac{M_2 \times d_2 \times h_2}{W_2}$

$\Rightarrow \frac{27 \times 12 \times 8}{W} = \frac{18 \times d_2 \times 9}{W}$

$\Rightarrow d_2 = 16$  days

Hence, the correct answer is Option C

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

#### Question 67

If  $A$  and  $B$  are acute angles and  $\sec A = 3$ ;  $\cot B = 4$ , then the value of  $\frac{\operatorname{cosec}^2 A + \sin^2 B}{\cot^2 A + \sec^2 B}$  is:



A  $\frac{25}{261}$

B  $\frac{322}{323}$

C  $\frac{1}{261}$

D 2

Answer: B

Explanation:

Given,  $\sec A = 3$

$$\Rightarrow \cos A = \frac{1}{3}$$

$$\Rightarrow \sin A = \sqrt{1 - \cos^2 A} = \sqrt{1 - \left(\frac{1}{3}\right)^2} = \sqrt{1 - \frac{1}{9}} = \sqrt{\frac{8}{9}} = \frac{2\sqrt{2}}{3}$$

$$\Rightarrow \operatorname{cosec} A = \frac{3}{2\sqrt{2}}$$

$$\Rightarrow \cot A = \frac{\cos A}{\sin A} = \frac{\frac{1}{3}}{\frac{2\sqrt{2}}{3}} = \frac{1}{2\sqrt{2}}$$

$$\cot B = 4$$

$$\Rightarrow \tan B = \frac{1}{4}$$

$$\Rightarrow \sec B = \sqrt{1 + \tan^2 B} = \sqrt{1 + \left(\frac{1}{4}\right)^2} = \sqrt{1 + \frac{1}{16}} = \sqrt{\frac{17}{16}} = \frac{\sqrt{17}}{4}$$

$$\Rightarrow \cos B = \frac{4}{\sqrt{17}}$$

$$\Rightarrow \sin B = \sqrt{1 - \cos^2 B} = \sqrt{1 - \frac{16}{17}} = \sqrt{\frac{1}{17}} = \frac{1}{\sqrt{17}}$$

$$\therefore \frac{\operatorname{cosec}^2 A + \sin^2 B}{\cot^2 A + \sec^2 B} = \frac{\left(\frac{3}{2\sqrt{2}}\right)^2 + \left(\frac{1}{\sqrt{17}}\right)^2}{\left(\frac{1}{2\sqrt{2}}\right)^2 + \left(\frac{\sqrt{17}}{4}\right)^2}$$

$$= \frac{\frac{9}{8} + \frac{1}{17}}{\frac{1}{8} + \frac{17}{16}}$$

$$= \frac{\frac{153+8}{8 \times 17}}{\frac{2+17}{16}}$$

$$= \frac{161}{8 \times 17} \times \frac{16}{19}$$

$$= \frac{322}{323}$$

Hence, the correct answer is Option B

### Question 68

If the single discount equivalent to successive discounts of 20% and x% is 24%, then the value of x is:

A 6%

B 5%

C 4%

D 8%

Answer: B

**Explanation:**

Let the marked price = M

$$\text{Price after 20\% discount} = \frac{80}{100}M$$

$$\text{Selling price after } x\% \text{ successive discount} = \frac{100-x}{100} \times \frac{80}{100} \times M$$

Overall discount = 24%

$$\text{Selling price after 24\% discount} = \frac{76}{100}M$$

$$\Rightarrow \frac{76}{100}M = \frac{100-x}{100} \times \frac{80}{100} \times M$$

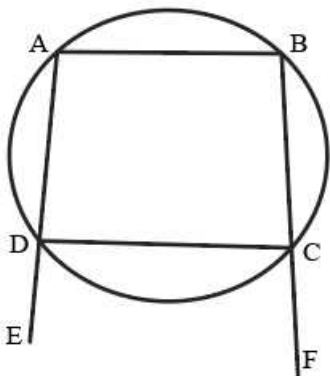
$$\Rightarrow 95 = 100 - x$$

$$\Rightarrow x = 5$$

Hence, the correct answer is Option B

**Question 69**

In the given figure, chords AD and BC in the circle, are extended to E and F, respectively.

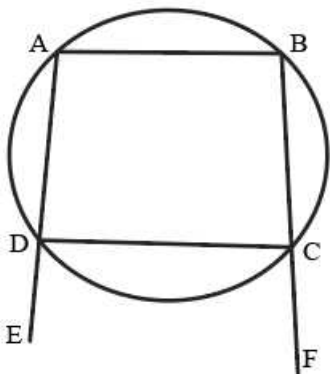


If  $\angle CDE = 85^\circ$ ,  $\angle DCF = 94^\circ$ , then the value of  $\angle ABF + \angle EAB$  is:

- A  $194^\circ$
- B  $179^\circ$
- C  $168^\circ$
- D  $182^\circ$

Answer: B

**Explanation:**



From the figure,

$$\angle CDE + \angle CDA = 180^\circ$$

$$\Rightarrow 85^\circ + \angle CDA = 180^\circ$$

$$\Rightarrow \angle CDA = 95^\circ$$

$$\angle DCF + \angle DCB = 180^\circ$$

$$\Rightarrow 94^\circ + \angle DCB = 180^\circ$$

$$\Rightarrow \angle DCB = 86^\circ$$

In the quadrilateral ABCD,

$$\angle ABF + \angle DCB + \angle CDA + \angle EAB = 360^\circ$$

$$\Rightarrow \angle ABF + 86^\circ + 95^\circ + \angle EAB = 360^\circ$$

$$\Rightarrow \angle ABF + \angle EAB + 181^\circ = 360^\circ$$

$$\Rightarrow \angle ABF + \angle EAB = 179^\circ$$

Hence, the correct answer is Option B

## 1500+ Very Important Free SSC Solved Questions

### Question 70

The value of  $\left[5^4 \div \left(\frac{11}{4} - \frac{13}{6}\right)^2\right] \div \left[7^3 \text{ of } 8^4 \div 17^5 - \frac{4}{3}\right]^2$  is:

A  $\frac{1}{61}$

B  $\frac{1}{91}$

C  $\frac{1}{71}$

D  $\frac{1}{81}$

Answer: D

Explanation:

$$\left[5^4 \div \left(\frac{11}{4} - \frac{13}{6}\right)^2\right] \div \left[7^3 \text{ of } 8^4 \div 17^5 - \frac{4}{3}\right]^2$$

$$= \left[49 \div \left(\frac{33-26}{12}\right)^2\right] \div \left[11 \text{ of } 8^4 \div 17^5 - \frac{4}{3}\right]^2$$

$$= \left[\frac{49}{9} \div \frac{49}{144}\right] \div \left[64 \div \frac{12}{7} - \frac{4}{3}\right]^2$$

$$= \left[\frac{49}{9} \times \frac{144}{49}\right] \div \left[64 \times \frac{7}{12} - \frac{4}{3}\right]^2$$

$$= \frac{144}{9} \div \left[\frac{112}{3} - \frac{4}{3}\right]^2$$

$$= \frac{144}{9} \div [36]^2$$

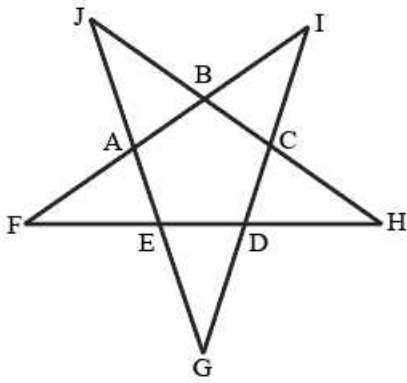
$$= \frac{144}{9} \times \frac{1}{36^2}$$

$$= \frac{1}{81}$$

Hence, the correct answer is Option D

Question 71

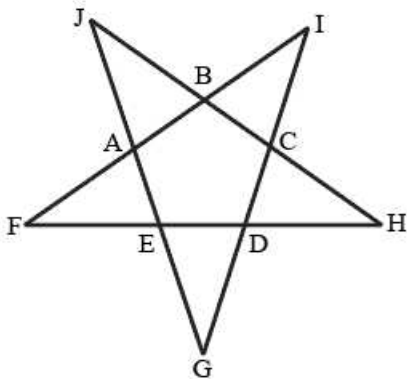
ABCDE is a regular pentagon. Its sides are extended as shown in the figure. The value of  $\frac{\angle ABC + 2\angle EGD + 3\angle BAJ}{6}$  is:



- A  $30^\circ$
- B  $75^\circ$
- C  $66^\circ$
- D  $45^\circ$

Answer: C

Explanation:



Given,

ABCDE is a regular pentagon

$$\text{Each angle of regular pentagon} = \frac{(n-2)180^\circ}{n} = \frac{(5-2)180^\circ}{5} = 108^\circ$$

$$\Rightarrow \angle ABC = \angle BCD = \angle CDE = \angle DEA = \angle EAB = 108^\circ$$

From the figure,

$$\angle BAJ + \angle EAB = 180^\circ$$

$$\Rightarrow \angle BAJ + 108^\circ = 180^\circ$$

$$\Rightarrow \angle BAJ = 72^\circ$$

$$\angle DEA + \angle GED = 180^\circ$$

$$\Rightarrow 108^\circ + \angle GED = 180^\circ$$

$$\Rightarrow \angle GED = 72^\circ$$

$$\angle CDE + \angle GDE = 180^\circ$$

$$\Rightarrow 108^\circ + \angle GDE = 180^\circ$$

$$\Rightarrow \angle GDE = 72^\circ$$

In  $\triangle GED$ ,

$$\angle GDE + \angle GED + \angle EGD = 180^\circ$$

$$\Rightarrow 72^\circ + 72^\circ + \angle EGD = 180^\circ$$

$$\Rightarrow \angle EGD = 36^\circ$$

$$\therefore \frac{\angle ABC + 2\angle EGD + 3\angle BAJ}{6} = \frac{108^\circ + 2(36^\circ) + 3(72^\circ)}{6} = \frac{108^\circ + 72^\circ + 216^\circ}{6} = \frac{396^\circ}{6} = 66^\circ$$

Hence, the correct answer is Option C

#### Question 72

Dividing the amount ₹18,144 among three people A, B, C in the ratio 3 : 5 : 8, the amount B gets more than A, is:

A ₹2,268

B ₹2,386

C ₹2,178

D ₹2,464

Answer: A

#### Explanation:

Given, Total amount = ₹18,144

Ratio of amounts of A,B,C = 3 : 5 : 8

Let the amounts of A,B,C are 3p, 5p, 8p respectively

$$\Rightarrow 3p + 5p + 8p = 18144$$

$$\Rightarrow 16p = 18144$$

$$\Rightarrow p = 1134$$

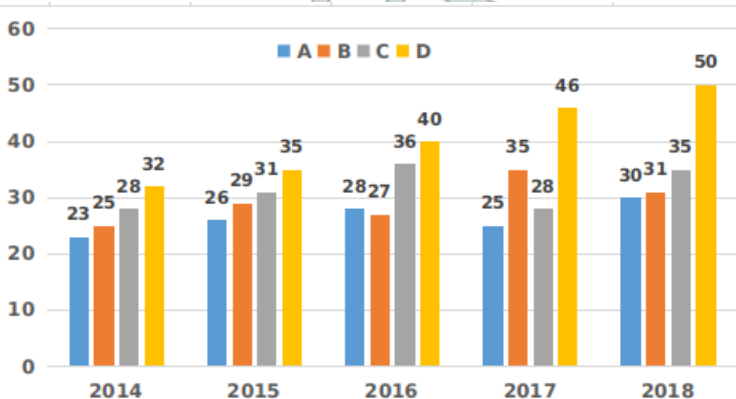
$$\therefore \text{The amount that B gets more than A} = 5p - 3p = 2p = 2(1134) = ₹2,268$$

Hence, the correct answer is Option A

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

#### Question 73

The following bar graph shows the data of the production of an item (in thousand tonnes) from four different companies A, B, C and D during the years mentioned.



In the five years given, the average production is highest in company ..... and lowest in company ....., respectively.

A A; B

B C; A

C B; C

D D; A

**Answer: D**

**Explanation:**

From the bar graph,

$$\text{The average production of company A in five years} = \frac{23+26+28+25+30}{5} = \frac{132}{5} = 26.4$$

$$\text{The average production of company B in five years} = \frac{25+29+27+35+31}{5} = \frac{147}{5} = 29.4$$

$$\text{The average production of company C in five years} = \frac{28+31+36+28+35}{5} = \frac{158}{5} = 31.6$$

$$\text{The average production of company D in five years} = \frac{32+35+40+46+50}{5} = \frac{203}{5} = 40.6$$

∴ In the five years given, the average production is highest in company D and the lowest in company A

Hence, the correct answer is Option D

**Question 74**

**The sum of 17 consecutive numbers is 289. The sum of another 10 consecutive numbers, whose first term is 5 more than the average of the first set of consecutive numbers, is:**

A 300

B 285

C 265

D 315

**Answer: C**

**Explanation:**

Given, sum of 17 consecutive numbers = 289

$$\Rightarrow \text{Average of 17 consecutive numbers} = \frac{289}{17} = 17$$

According to the problem,

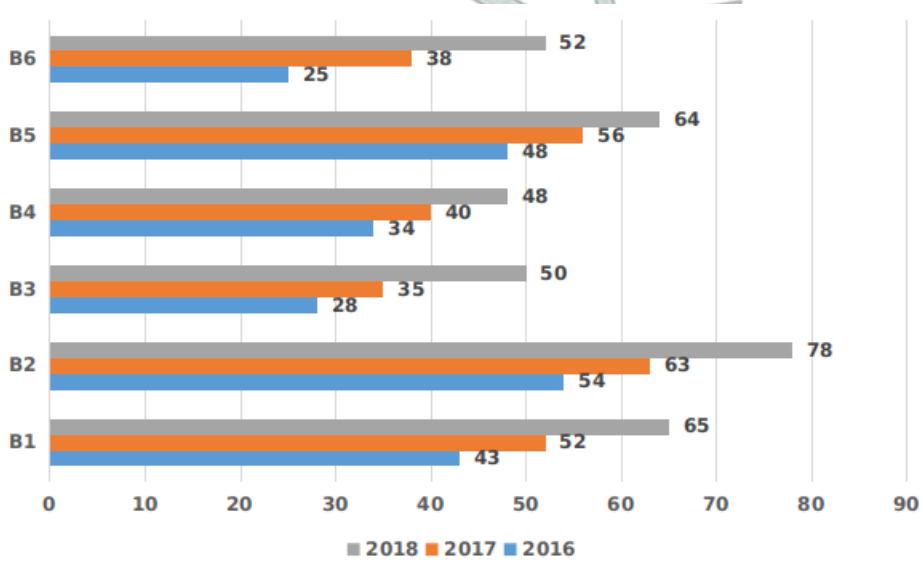
The first term of the another 10 consecutive numbers =  $17+5 = 22$

$$\therefore \text{Sum of the another consecutive numbers} = 22+23+24+25+26+27+28+29+30+31 = \frac{31(31+1)}{2} - \frac{21(21+1)}{2} = \frac{31 \times 32}{2} - \frac{21 \times 22}{2} = 496 - 231 = 265$$

Hence, the correct answer is Option C

Question 75

The following graph shows the data of the collection of interest on loans (in crore ₹) by six branches B1, B2, B3, B4, B5 and B6 of a bank during the years mentioned.



Based on the information, from the year 2016 to 2017, the highest rate of collection is for the branch:

- A B4
- B B6
- C B3
- D B1

Answer: B

Explanation:

From the graph,

Percentage increase in collection of interest from 2016 to 2017 for the branch B1 =  $\frac{9}{43} \times 100 = 20.93\%$

Percentage increase in collection of interest from 2016 to 2017 for the branch B3 =  $\frac{7}{28} \times 100 = 25\%$

Percentage increase in collection of interest from 2016 to 2017 for the branch B4 =  $\frac{6}{34} \times 100 = 17.64\%$

Percentage increase in collection of interest from 2016 to 2017 for the branch B6 =  $\frac{13}{25} \times 100 = 52\%$

∴ From the year 2016 to 2017, the highest rate of collection is for the branch B6

Hence, the correct answer is Option B

**Latest Job Updates on Telegram - Join here**

**General Awareness**

**Instructions**

For the following questions answer them individually

**Question 76**

Who among the following wrote 'Akbar Nama'?

- A Akbar
- B Abul Fazl

C Amir Khushro

D Birbal

Answer: B

## Join SSC Daily Quiz Telegram Group

Question 77

Which of the following units is used for the measurement of Luminous Intensity?

A Candela

B Mole

C Ampere

D Kelvin

Answer: A

Question 78

Which of the following is a well known place for Chikankari embroidery?

A Indore

B Raipur

C Ranchi

D Lucknow

Answer: D

Question 79

Who among the following is credited with the discovery of neutrons?

A E Rutherford

B J Chadwick

C James P Joule

D JJ Thomson

Answer: B

## 25 SSC CHSL Mocks for just Rs. 149

Question 80

In context of computing, what is the full form of URL?

A Undistributed Resource Locator

B Uniform Region Locator

C Unified Resource Locator



D Uniform Resource Locator

Answer: D

Question 81

Which of the following passes cuts through Pir Panjal range and links Manali and Leh by road?

A Baralachala Pass

B Rohtang Pass

C Nathula Pass

D Banihal Pass

Answer: B

Question 82

Which of the following teams won the 2018-19 Santosh Trophy?

A Railways

B Mizoram

C Services

D Punjab

Answer: C

## SSC CHSL Free Mock Test

Question 83

Where is Bishnupur, which is famous for terracotta temples, located?

A Rajasthan

B Gujarat

C West Bengal

D Assam

Answer: C

Question 84

Which of the following words was inserted in the Preamble by the Constitution (42nd Amendment) Act, 1976?

A Equality

B Socialist

C Liberty

D Justice

Answer: B

**Question 85**

Who among the following won the 'Golden Globe 2020 award' for 'Best Performance by an Actress in a Motion Picture - Drama'?

- A Cynthia Erivo
- B Renee Zellweger
- C Beanie Feldstein
- D Charlize Theron

**Answer: B**

**SSC CHSL Previous Papers (DOWNLOAD PDF)**

**Question 86**

Who among the following is responsible for preparation of National Income estimates in India?

- A IRDA
- B NITI Aayog
- C Central Statistical Organization
- D Finance Commission

**Answer: C**

**Question 87**

Who among the following was the first non-Indian to receive the Bharat Ratna, the highest Indian honour that can be given to civilians?

- A Mikhail Gorbachev
- B Abdul Ghaffar Khan
- C Nelson Mandela
- D Josip Broz Tito

**Answer: B**

**Question 88**

In January 2020, the Yashaswini Scheme for Women Entrepreneurship was launched in Goa. The scheme aims to support female Self Help Groups (SHGs) with interest-free loans up to:

- A ₹10 lakh
- B ₹5 lakh
- C ₹1 lakh
- D ₹50 lakh

**Answer: B**

## SSC CGL Previous Papers (DOWNLOAD PDF)

### Question 89

Which of the following articles of the Constitution of India was invoked by the Kerala government to file a petition against the Citizenship (Amendment) Act (CAA) in the Supreme Court on 14 January 2020?

- A Article 17
- B Article 131
- C Article 23
- D Article 368

**Answer: B**

### Question 90

How many Indian biosphere reserves are included in the UNESCO World Network of Biosphere Reserves, as of October 2019?

- A 14
- B 11
- C 17
- D 9

**Answer: B**

### Question 91

Which of the following is a tertiary economic activity?

- A Weaving
- B Trading
- C Hunting
- D Farming

**Answer: B**

## SSC CGL Free Mock Test (Latest Pattern)

### Question 92

Which of the following is a Rabi crop?

- A Jowar
- B Tur
- C Bajra
- D Wheat

**Answer: D**

**Question 93**

Which of the following freedom fighters was NOT involved in the Kakori Train Robbery?

- A Bhagat Singh
- B Ashfaqullah Khan
- C Chandrashekhar Azad
- D Ram Prasad Bismil

**Answer: A**

**Question 94**

As of 15 January 2020, which of the following nations is the number one ranked team in the 'ICC Men's T20I Team Rankings'?

- A Pakistan
- B Australia
- C England
- D India

**Answer: A**

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

**Question 95**

Which of the following is used to receive and send computer files over telephone lines?

- A MICR device
- B Floppy disk
- C Modem
- D Light pen

**Answer: C**

**Question 96**

As of 15 January 2020, who among the following was the number one ranked male tennis player in the ATP rankings?

- A Daniil Medvedev
- B Novak Djokovic
- C Roger Federer
- D Rafael Nadal

**Answer: D**

**Question 97**

How many members of the Rajya Sabha can be nominated by the President of India?

- A 14 members
- B 16 members
- C 10 members
- D 12 members

**Answer: D**

## SSC CHSL Study Material

### Question 98

Who among the following won ICC's 'Spirit of Cricket Award' for the year 2019?

- A Chris Gayle
- B Mahendra Singh Dhoni
- C Faf du Plessis
- D Virat Kohli

**Answer: D**

### Question 99

Which of the following elements occurs most abundantly in our universe?

- A Silicon
- B Oxygen
- C Nitrogen
- D Hydrogen

**Answer: D**

### Question 100

The Thar Desert, also known as the Great Indian Desert, lies towards the western margins of \_\_\_\_\_ hills.

- A Aravali
- B Javadi
- C Shevroy
- D Udgalakal

**Answer: A**

**SSC CHSL Free App**

**25 SSC CHSL Mocks for just Rs. 149**

[\*\*SSC CHSL Free Mock Test\*\*](#)

[\*\*SSC CHSL Previous Papers \(DOWNLOAD PDF\)\*\*](#)

[\*\*SSC CGL Previous Papers \(DOWNLOAD PDF\)\*\*](#)

[\*\*SSC CGL Free Mock Test \(Latest Pattern\)\*\*](#)

[\*\*SSC CHSL Important Questions and Answers \(Download PDF\)\*\*](#)

[\*\*SSC CHSL Study Material\*\*](#)

[\*\*SSC CHSL Free App\*\*](#)

[\*\*Daily Free SSC Practice Set\*\*](#)

[\*\*Free SSC Study Material \(18,000 Solved Questions\)\*\*](#)

[\*\*1500+ Very Important Free SSC Solved Questions\*\*](#)

[\*\*SSC Exam Update Videos & Free Study Material \(YouTube Channel\)\*\*](#)

[\*\*Latest Job Updates on Telegram - Join here\*\*](#)

[\*\*Join SSC Daily Quiz Telegram Group\*\*](#)