



## SSC CGL 2011 Tier 1 - Shift 2

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## Reasoning

### Instructions

For the following questions answer them individually

### Question 1

Find out the pair of numbers that does not belong to the group for lack of common property.

- A 16-18
- B 56-63
- C 96-108
- D 86-99

**Answer:** D

### Explanation:

In option A,B and C difference is increasing with a rate of 5.  
So accordingly in option D difference should be of 17 but it is not.  
Hence answer will be D.

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### Question 2

In the following Question, number of letters is skipped in between by a particular rule. Which of the following observes the rule?

- A ACZXFG
- B CFXURI
- C CFIURX
- D CXFUIR

**Answer:** D

### Explanation:

Among four options only D) follows a pattern where as much C is ahead from left, X is, from right, in alphabetical order.  
Similarly 3rd and 4th letter, 5th and 6th letter.  
Hence answer will be D

### Question 3

Which one of the given responses would be a meaningful order of the following?

(1) Sentence (2) Word (3) Chapter (4) Phrase (5) Paragraph

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

**Answer:** C

### Explanation:

According to given question meaningful order will be  
word, phrase, sentence, paragraph, chapter

and in option C) this order is given in reverse manner. Hence answer will be C)

**Question 4**

**Arrange the following words as per order in the dictionary:**

**(1) Inhabit (2) Ingenious (3) Inherit (4) Influence (5) Infatuation**

**A** 1,2,3,4,5

**B** 5,4,1,2,3

**C** 4,5,2,1,3

**D** 5,4,2,1,3

**Answer: D**

**Explanation:**

For order in dictionary, words will come according to alphabetical order with each letter of a position with another letter of word with the same position number.

Hence order will be

Infatuation, Influence, Ingenious, Inhabit, Inherit

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**Question 5**

**Which one set of letters when sequentially placed at the gaps in the given letters series shall complete it?**

**\_\_ab\_\_b\_\_aba\_\_abab**

**A** a bb aa

**B** bb aa b

**C** ab aa b

**D** a aa ba

**Answer: D**

**Explanation:**

Among all options, in option D it is making a pattern of aabab aabab aabab

**Question 6**

**14, 19, 29, 49, 89, \_\_\_ ? \_\_\_**

**A** 139

**B** 149

**C** 159

**D** 169

**Answer: D**

**Explanation:**

Given series follows a pattern which is described below:

$$14+5=19$$

$$19+(5*2)=29$$

$$29+(5*4)=49$$

$$49+(5*8)=89$$

Hence next number will be  $89+(5*16)=169$

**Question 7**

**BMRG, DLTF, FKVE, HJXD, \_\_\_?\_\_\_**

A JIZC

B JZIB

C GIFB

D MOLC

**Answer: A**

**Explanation:**

In every next set of alphabet first alphabet is 1 ahead from the 1st alphabet of previous set  
And second alphabet is just previous one from the 2nd alphabet of its previous set  
Hence only A) option follows this pattern,

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**Question 8**

**121, 144, 289, 324, 529, 576, \_\_\_?\_\_\_**

A 961

B 841

C 900

D 729

**Answer: B**

**Explanation:**

Given series follows a pattern described below:

$$121 = 11^2$$

$$144 = 12^2$$

$$289 = (12 + 5)^2$$

$$324 = (18)^2$$

$$529 = (18 + 5)^2$$

$$576 = (24)^2$$

So next number will be  $(24 + 5)^2 = 841$

**Question 9**

**5, 21, 69, 213, 645, \_\_\_?\_\_\_**

A 1670

B 1941

C 720

D 1320

**Answer: B**

**Explanation:**

Given series follows a pattern described below:

$$5+(16*1) = 21$$

$$21+(16*3) = 69$$

$$69+(16*3*3) = 213$$

$$213+(16*3*3*3) = 645$$

$$\text{Hence next digit will be } 645+(16*3*3*3*3) = 1941$$

**Question 10**

Find out the Questioned number.

6 : 5 :: 8 : ?

- A 2
- B 4
- C 6
- D 10

**Answer: C**

**Explanation:**

In first proportionate  $6-1=5$

So now in second proportionate  $8-2=6$

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**Question 11**

In a row of trees, a tree is 7th from left end and 14th from the right end. How many trees are there in the row?

- A 18
- B 19
- C 20
- D 21

**Answer: C**

**Explanation:**

From right if we start to count then at 14th place 7th tree from left comes hence 6 trees will remain to count.

So total trees will be  $14+6 = 20$

**Question 12**

Shan is 55 years old, Sathian is 5 years junior to Shan and 6 years senior to Balan. The youngest brother of Balan is Devan and he is 7 years junior to him. So what is the age difference between Devan and Shah?

- A 18 years
- B 15 years
- C 13 years
- D 7 years

**Answer: A**

**Explanation:**

According to given question ages will be

Shan = 55 years

Sathian = 5 year younger than shan = 50 years

Balan = 6 year younger than sathian = 44

Devan = 7 year younger than Devan = 37

Hence diff. between Shan and Devan will be =  $55 - 37 = 18$

**Question 13**

Vinod introduces Vishal as the son of the only brother of his father's wife. How is Vinod related to Vishal?

- A Cousin
- B Brother
- C Son
- D Uncle

**Answer: A**

**Explanation:**

According to question vishal will be vinod's maternal uncle's son. Hence they will be cousin.

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**Question 14**

There are 80 families in a small extension area. 20 per cent of these families own a car each. 50 per cent of the remaining families own a motor cycle each. How many families in that extension do not own any vehicle?

- A 30
- B 32
- C 23
- D 36

**Answer: B**

**Explanation:**

Total number of families = 80

Families that own a car each =  $\frac{20}{100} \times 80 = 16$

Families remaining =  $80 - 16 = 64$

Families that own a motorcycle each =  $\frac{50}{100} \times 64 = 32$

Thus, families in the extension that do not own any vehicle =  $64 - 32 = 32$

=> Ans - (B)

**Question 15**

If John celebrated his victory day on Tuesday, 5th January 1965, when will he celebrate his next victory day on the same day?

- A 5th January 1970
- B 5th January 1971
- C 5th January 1973

D 5th January 1974

**Answer: B**

**Explanation:**

After every year on the same date, next day will come like if on 5th January 1965 it was Tuesday, then on 5th Jan. 1966 it will be Wednesday.

Hence after completing 6 years, in 7th year day will be Tuesday again. Hence date will be 5 Jan. 1971

**Question 16**

Five girls M, N, O, P and Q are standing in a row. P is on the right of Q. N is on the left of Q, but is on the right of M. P is on the left of O. Who is standing on the extreme right?

A Q

B N

C O

D P

**Answer: C**

**Explanation:**

According to given question order from left to right will be

M, N, Q, P, O

hence O will be at the extreme right position.

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**Question 17**

Sita is elder than Swapna. Lavanya is elder than Swapna but younger than Sita. Suvarna is younger than both Hari and Swapna, Swapna is elder than Hari. Who is the youngest?

A Sita

B Lavanya

C Suvarna

D Hari

**Answer: C**

**Explanation:**

According to given question order of youngest to oldest will be

Suvarna, Hari, Swapna, Lavanya, Sita

**Question 18**

After 9 O'clock at what time between 9 p.m. and 10 p.m. will the hour and minute hands of a clock point in opposite direction?

A 15 minutes past 9

B 16 minutes past 9

C  $\left(\frac{180}{11}\right)$  minutes past 9

D  $\left(\frac{190}{11}\right)$  minutes past 9

**Answer: C**

**Explanation:**

Hour hand's speed is  $\frac{1}{2}^\circ$  per min.

And minute hand's speed is  $6^\circ$  per minute

So relative speed of minute hand will be  $6^\circ - \frac{1}{2}^\circ = \frac{11}{2}$  per minute

Hence time taken to make an angle of  $180^\circ$  in between will be =  $\frac{90}{\frac{11}{2}}$  (As at 9:00 o'clock angle between them is already  $90^\circ$ )

So time will be  $\frac{180}{11}$  minutes passed 9

**Question 19**

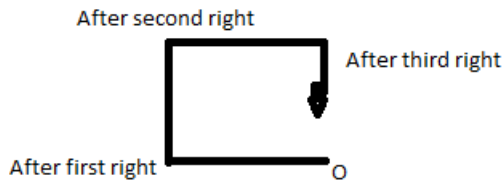
One evening, Raja started to walk toward the Sun. after walking a while, he turned to his right and again to his right. After walking a while, he again turned right. In which direction is he facing?

- A South
- B East
- C West
- D North

**Answer:** A

**Explanation:**

As it is clear from the diagram that after 3 right turn he will heading towards south.



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**Question 20**

Vivek and Ashok start from a fixed point. Vivek moves 3 km north and turns right and then covers 4 km. Ashok moves 5 km west and turns right and walks 3 km, Now how far are they apart?

- A 10 km
- B 9 km
- C 8 km

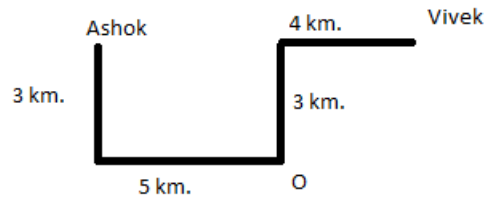


D 6 km

**Answer: B**

**Explanation:**

Let's say O is starting point of travelling and according to diagram vivek and ashok will be at a distance of 9 km.



**Question 21**

From the given alternative words, select the word which cannot be formed using the letters of the given word: MISFORTUNE

A FORT

B TURN

C SOFT

D ROAM

**Answer: D**

**Explanation:**

As option D) has letter A which is not present in MISFORTUNE  
Hence answer will be ROAM

**Question 22**

From the given alternative words, select the word which can be formed using the letters of the given word: STRANGULATION

A TRIANGLE

B GARLAND

C ROASTING

D TRAUMA

**Answer: C**

**Explanation:**

As option C has a letter S which is not present in STRANGULATION hence answer will be C.

## General Science Notes for SSC CGL

### Question 23

If in a certain code, RAMAYANA is written as PYKYWYLY, then how MAHABHARATA can be written in that code?

- A NBIBCIBSBUB
- B LZGZAGZQZSZ
- C CKJCDJCTCVC
- D KYFYZFYRYRY

Answer: D

### Explanation:

We can see that in code first letter of 'RAMAYANA', R is coded taking 1 before to it. Hence for Mahabharat, M will be coded as K. Only option D has this code.

### Question 24

If MEKLF is coded as 91782 and LLLJK as 88867, then how can IGHED be coded?

- A 97854
- B 64521
- C 53410
- D 95632

Answer: C

### Explanation:

According to given code alphabetical series has serial starting from D as 0, E as 1 and so on. Hence IGHED will be 53410

### Question 25

Two statements are given below followed by four alternative inferences. Select the one which is most appropriate.

### Statements:

- (i) All radios sold in that shop are of high standard.
- (ii) Some of Murphy radios are sold in that shop.

### Inferences:

- 1: All radios of high standard are manufacture by Murphy company,
- 2: Some of the Murphy radios of high standard.
- 3: None of the Murphy radios is of high standard.
- 4: Some of the Murphy radios of high standard are sold in that shop.

- A 1 and 2 inferences only
- B 2 and 4 inferences only
- C 1 and 3 inferences only
- D 1 and 4 inferences only

Answer: B

### Explanation:

According to given statements only 2nd and 4th inferences follow because in 1st inference it is said that all radios of high standard are manufactured by Murphy company which is not stated in given statements  
And in 3rd option it is said that none of the murphy radio is of high standard but in given statements it is stated that shop only sells high standard radios and some of them are murphy's hence 3rd option is also wrong.

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### Instructions

Directions : In each of the following Questions, select the missing number from the given responses:

#### Question 26

7	3	2
4	9	6
2	1	5
69	91	?

- A 58
- B 51
- C 65
- D 64

Answer: C

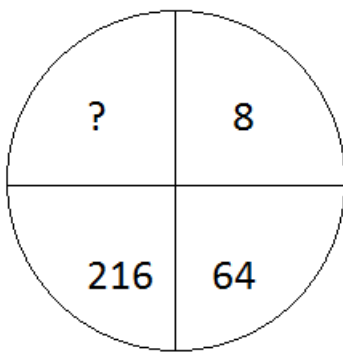
#### Explanation:

In given sum,  $69 = 7^2 + 4^2 + 2^2$

And  $91 = 1^2 + 9^2 + 3^2$

So missing digit will be  $2^2 + 6^2 + 5^2 = 65$

#### Question 27



- A 343
- B 512
- C 729
- D 1000

Answer: B

#### Explanation:

Given numbers are cubes of increasing numbers like given below:

$$8 = 2^3$$

$$64 = 4^3$$

$$216 = 6^3$$

hence next will be  $512 = 8^3$

### Instructions

For the following questions answer them individually

### Question 28

The population of rats is increasing year after year in a village. Find out the missing population from the following information:

Years : 1990 1991 1992 1993 1994 1995

Population : 4 8 16 ? 44 64

A 22

B 32

C 28

D 34

Answer: C

### Explanation:

Given statistics follow a pattern like below:

First = 4

Second =  $4 * 2$

Third =  $4 * (2+2)$

Fourth =  $4 * (2+2+3)$

Fifth =  $4 * (2+2+3+4)$

Sixth =  $4 * (2+2+3+4+5)$

hence fourth digit will be 28

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### Question 29

If - stands for division, + for multiplication,  $\div$  for subtraction and  $\times$  for addition, then which one of the following equations is correct?

A  $19 + 5 - 4 \times 2 \div 4 = 11$

B  $19 \times 5 - 4 \div 2 + 4 = 16$

C  $19 \div 5 + 4 - 2 \times 4 = 13$

D  $19 \div 5 + 4 + 2 \div 4 = 20$

Answer: C

### Explanation:

After putting changed signs only in option C we are finding the right balance

i.e.  $19 - 5 \times 4 \div 2 + 4 = 13$

### Instructions

Directions : In each of the following Questions, select the related letter / word / number from the given alternatives.

### Question 30

Country : President :: State : ?

A Chief Minister

B Prime Minister

- C Speaker
- D Governor

**Answer: D**

**Explanation:**

As president is head of country hence governor will be head of state.

**Question 31**

**Mirage : Desert :: ?**

- A Sky : Illusion
- B Rainbow : Sky
- C Rain : Rainbow
- D Image : Mirror

**Answer: B**

**Explanation:**

Mirage is an illusion in desert and rainbow is also an illusion in sky.  
So answer will be B

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**Question 32**

**TEKCAR : RACKET :: TCEJBO : ?**

- A TCEOBJ
- B OBJECT
- C CEJBOT
- D REJECT

**Answer: B**

**Explanation:**

It is given from the given sets of alphabets that 2nd set in a proportionate will be made by reversing the order of alphabets in its previous set.

Hence missing set will be OBJECT.

**Question 33**

**JIHK : PONQ :: WVUX : ?**

- A KNML
- B RSTU
- C HIGJ
- D MLKN

**Answer: D**

**Explanation:**

Words have a pattern where letters are starting from 3rd place and are in a continuous manner from there to 1st place reversly and then going to 4th place.

like JIHK, PONQ

so among all options only D is following this pattern.

**Question 34**

**UUWX : WWYZ :: OOQR : ?**

- A OOPG
- B MMPQ
- C XXYZ
- D QQST

**Answer: D**

**Explanation:**

We have to identify a pattern and apply it on OOQR to find missing set of alphabets.

Firstly it is clear that 1st and 2nd alphabets will remain same.

And it will be 1 ahead from the 1st alphabet of its previous set in proportionate. Hence first and second alpha. of missing one will be QQ

And 3rd will be 1 ahead from 2nd alphabet and 4th will be just next its previous one.

So answer will be QQST

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**Question 35**

**BIMN : CKPR :: CURD : ?**

- A DWUH
- B WUHC
- C UHDW
- D HUVN

**Answer: A**

**Explanation:**

In given sets of alphabets, in first two sets BIMN and CKPR, difference of number of alphabet in alphabetical order is increasing

As in 2nd set C comes just after B from first set of alphabets

Now in 2nd set K comes 1 ahead from I, in first set

P comes 2 ahead from M, in first set

And R comes 3 ahead from N, in first set

Following this pattern missing set will be made through CURD and it will be DWUH.

**Question 36**

**BCFE : HILK :: NORQ : ?**

- A TXWU
- B TXUW
- C TUXW
- D TUWX

**Answer: C**

**Explanation:**

In given sets of alphabets, 2nd alphabet is one ahead of its previous one and 4th alphabet is one before to its previous one in alphabetical order.

And this pattern is followed by only in C) option.

**Question 37**

? : 63 :: 08 : 26

A 12

B 9

C 18

D 15

**Answer: D**

**Explanation:**

Expression : ? : 63 :: 08 : 26

The pattern followed above is =  $n^2 - 1 : n^3 - 1$

$$\Rightarrow 8 : 26 = 3^2 - 1 : 3^3 - 1$$

Similarly,  $63 = 4^3 - 1$

$$\Rightarrow 4^2 - 1 = 16 - 1 = 15$$

$\Rightarrow$  Ans - (D)

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**Question 38**

64 : ? :: 72 : 63

A 44

B 54

C 52

D 70

**Answer: B**

**Explanation:**

In second proportionate  $63 = 72 - (\text{sum of its digits i.e. } 7+2)$

hence in first proportionate missing number will be =  $64 - 10 = 54$

**Instructions**

Directions : In each the following Questions, find the odd number / letters / number pair from the given alternatives.

**Question 39**

A Softball

B Baseball

C Cricket

D Basketball

**Answer: D**

**Explanation:**

Among four options BASKETBALL has largest size, in remaining three options size of ball is equal and small.

**Question 40**

A Annoy

B Distress

C Harass

D Ravage

**Answer: D**

**Explanation:**

Option A B and C are emotions of negativity whether D is act of destruction.

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**Question 41**

A PRSU

B SUWY

C HJLN

D CEGI

**Answer: A**

**Explanation:**

Except A , all options are following a pattern where every next letter coming one ahead of its previous one.

**Question 42**

A YDWB

B TKRI

C QNOM

D HLFJ

**Answer: C**

**Explanation:**

3rd letter is one before to 1st letter and 4th is one before to 2nd letter.

Above pattern is followed in all options except in C.

**Question 43**

A Tomato

B Potato

C Carrot

D Onion



Answer: A

Explanation:

Tomato is a fruit and all others are vegetables.

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Question 44

A 125

B 789

C 236

D 347

Answer: A

Explanation:

Only first option is cube of 5, no other option is a cube of a number.

Instructions

For the following questions answer them individually

Question 45

Some equations have been solved on the basis of certain system. Find the correct answer for the unsolved equation on that basis. If  $94 + 16 = 42$ ,  $89 + 23 = 78$ . then  $63 + 45 = ?$

A 18

B 28

C 38

D 48

Answer: C

Explanation:

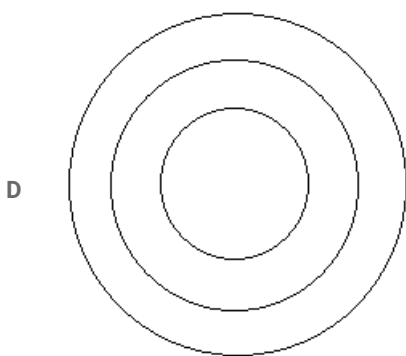
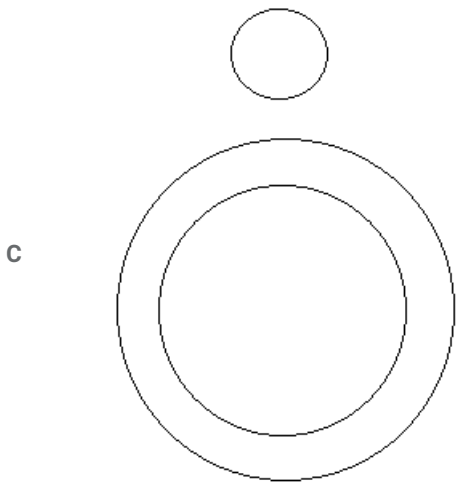
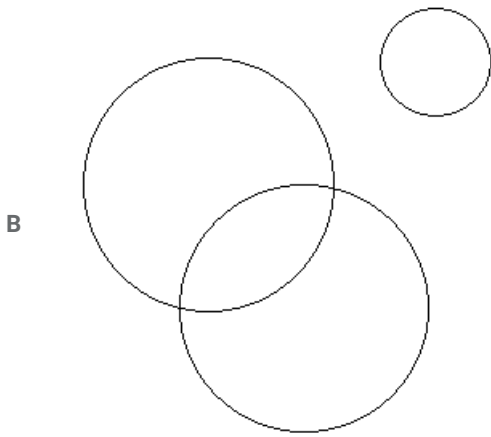
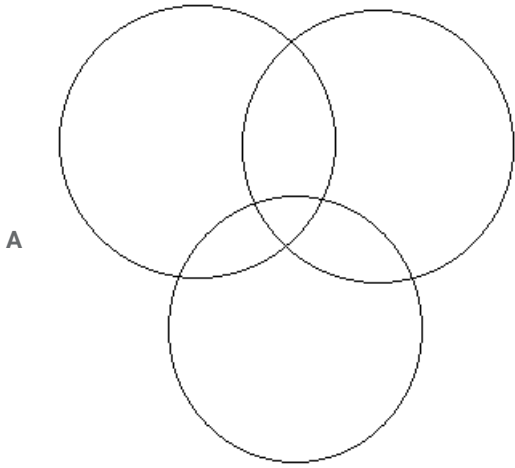
$$94 + 16 = 9 \times 4 + 1 \times 6 = 42$$

$$89 + 23 = 8 \times 9 + 2 \times 3 = 78$$

$$63 + 45 = 6 \times 3 + 4 \times 5 = 38$$

Question 46

Which one of the following diagrams represents the correct relationship among 'Judge', 'Thief' and 'Criminal'?



Answer: C

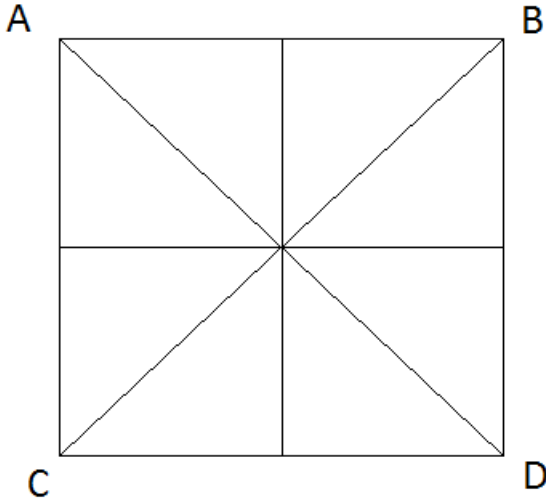
**Explanation:**

Their is a subset of criminal and judge should reamin as an outer set with criminal and their. Hence only option C is satisfying this pattern.

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**Question 47**

How many triangles are there in the given figure?



- A 16
- B 14
- C 8
- D 12

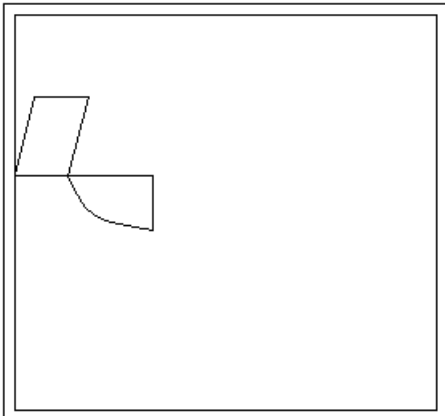
Answer: A

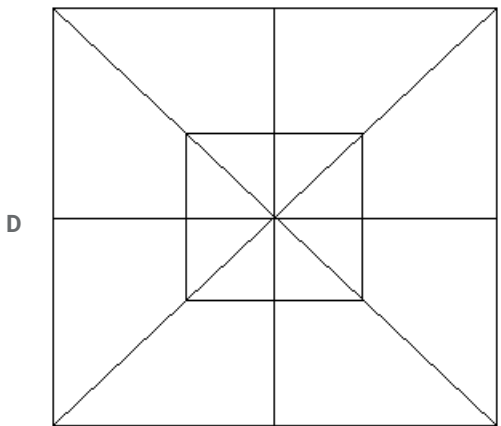
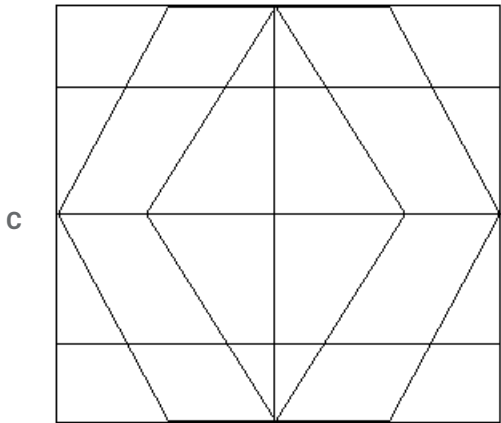
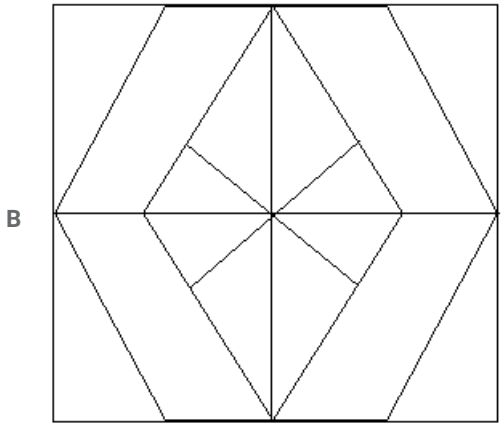
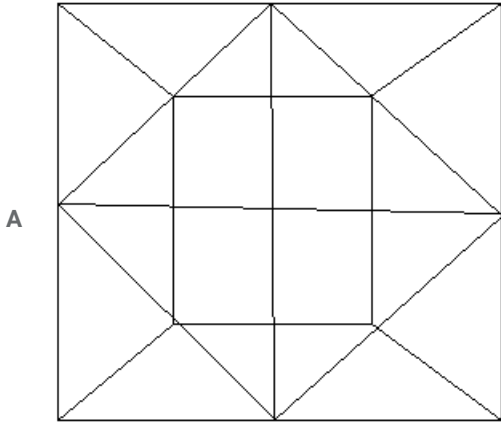
**Explanation:**

First calculate the triangles having no triangle inside = 8  
Now triangles having two small triangles inside = 4  
Now triangles having more than 2 triangles inside = 4  
Total number of triangles = 16

**Question 48**

In which option, figure given below is embedded or hidden ?





Answer: C

**Explanation:**

In given figure one rhombus is there and other quadrilateral is also there.

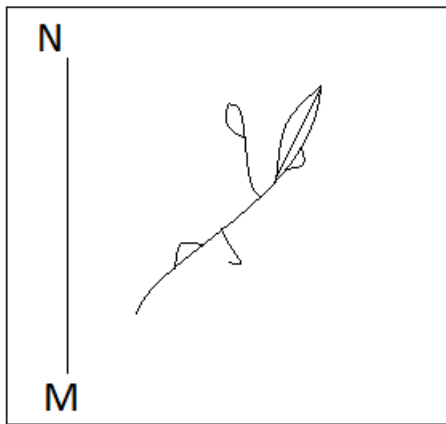
And only figure, in which these two are present as depicted in given diagram, is option C

As in left most corner of this figure one rhombus and a quadrilateral can be seen as depicted in the diagram.

**Instructions**

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

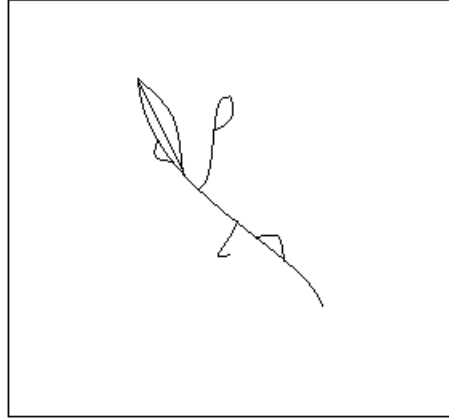
**Question 49**



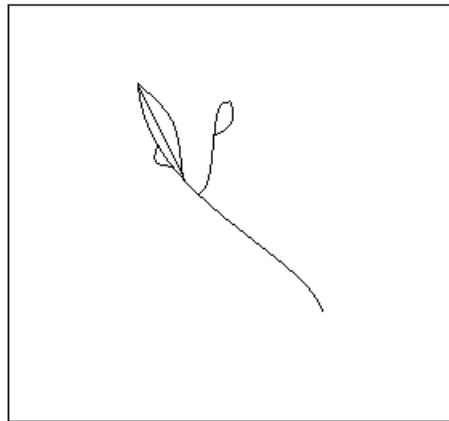
A



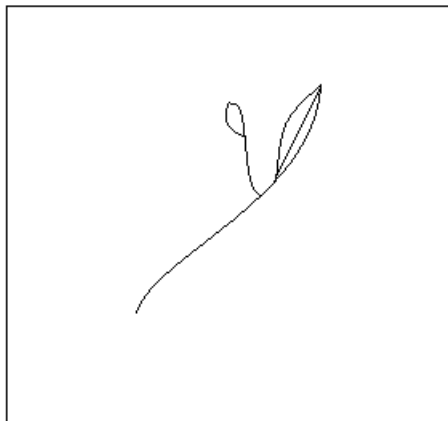
B



C



D



Answer: B

**Explanation:**

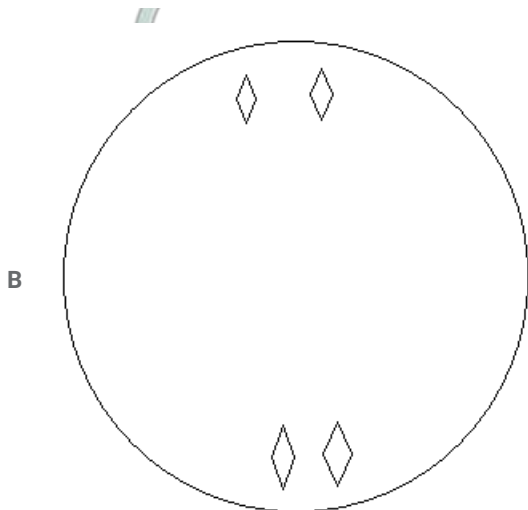
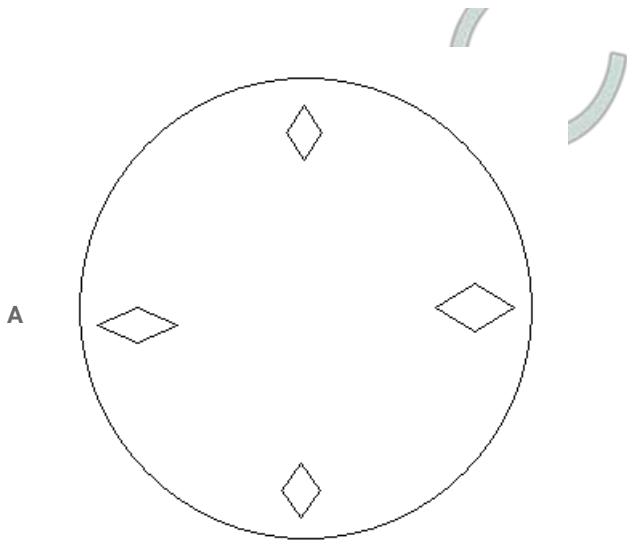
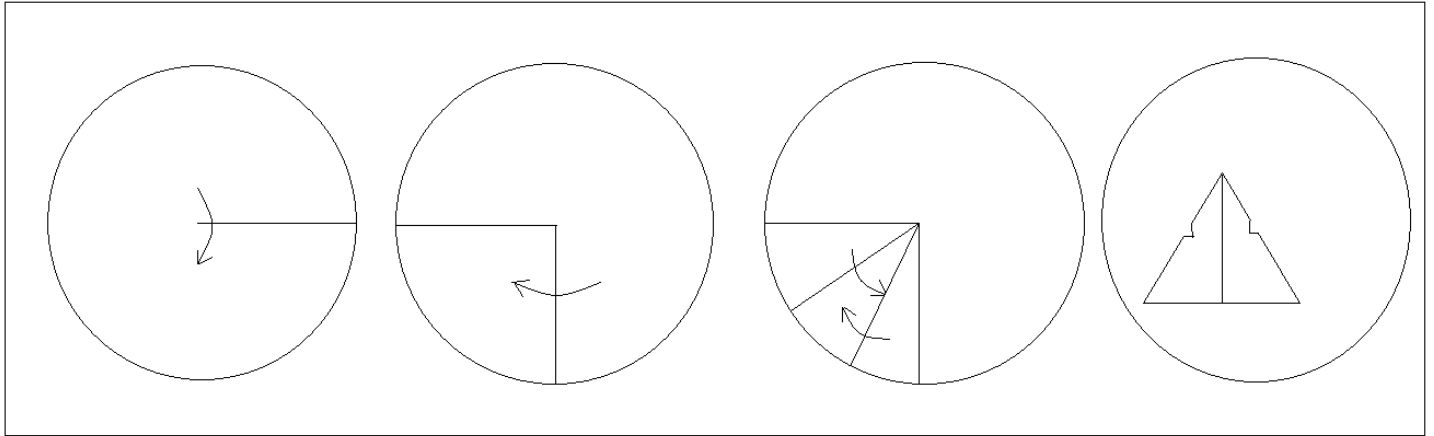
Always remember in mirror image problems, reflection of every point of real image will be equidistance from mirror with real image. Hence answer will be B

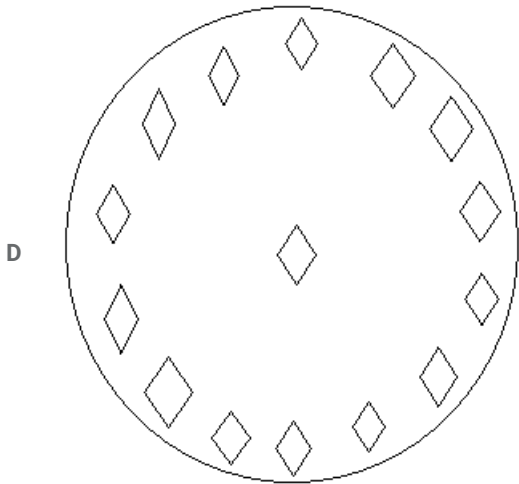
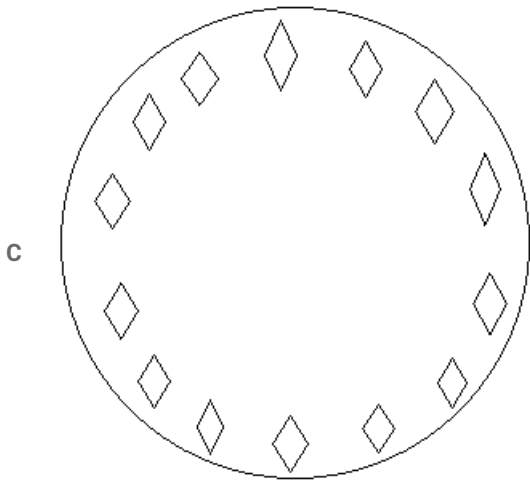
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**Instructions**

Directions: A piece of paper is folded and cut as shown below in the Question figures. From the given answer figures, indicate how it will appear when opened.

**Question 50**





Answer: A

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### General Awareness

#### Instructions

For the following questions answer them individually

#### Question 51

Coronation of Shivaji took place in

A 1627 A.D.

B 1674 A.D.

C 1680 A.D.

D 1670 A.D.

Answer: B

#### Question 52

The System of Dyarchy was introduced in India in

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- A 1909
- B 1935
- C 1919
- D 1945

**Answer: C**

**Question 53**

The Editor of 'Young India' and 'Harijan' was

- A Nehru
- B Ambedkar
- C Mahatma Gandhi
- D Subash Chandra Bose

**Answer: C**

**Question 54**

Who of the following attended all the Three Round Table Conferences?

- A B.R. Ambedkar
- B M.M. Malavia
- C Vallabhbhai Patel
- D Gandhiji

**Answer: A**

## SSC CGL Previous Papers (DOWNLOAD PDF)

**Question 55**

Which is the largest living bird on Earth?

- A Emu
- B Ostrich
- C Albatross
- D Siberian Crane

**Answer: B**

**Question 56**

Rihand Dam Project provides irrigation to

- A Gujarat and Maharashtra
- B Orissa and West Bengal

C Uttar Pradesh and Bihar

D Kerala and Karnataka

Answer: C

Question 57

The Headquarters of MCF (Master Control Facility) - the nerve centre of all entire space craft operations-in India is at

A Hyderabad - Andhra Pradesh

B Thumba - Kerala

C Sriharikota - Andhra Pradesh

D Hassan - Karnataka

Answer: D

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Question 58

Which is the longest irrigation canal in India?

A Sirhind Canal

B Yamuna Canal

C Indira Gandhi Canal

D East Kosi Canal

Answer: C

Question 59

Which one of the following minerals is found in Monazite sand?

A Potassium

B Uranium

C Thorium

D Sodium

Answer: C

Question 60

In coriander, the useful parts are

A roots & leaves

B leaves & flower

C leaves & dried fruits

D flowers & dried fruits

Answer: C

## SSC CGL Tier-2 Previous Papers PDF

Question 61

Which plant is called 'Herbal Indian Doctor'?

- A Amla
- B Mango
- C Neem
- D Tulsi

Answer: A

Question 62

The pH of human blood is

- A 7.2
- B 7.8
- C 6.6
- D 7.4

Answer: D

Question 63

Which amongst the following is largest endocrine gland in the body?

- A Thyroid
- B Parathyroid
- C Adrenal
- D Pituitary

Answer: A

## SSC CGL Important Questions PDF

Question 64

Which amongst the following is the largest mammal?

- A Elephant
- B Whale
- C Dinosaur
- D Rhinoceros

Answer: B

**Question 65**

Which part becomes modified as the tusk of elephant?

- A Canine
- B premolar
- C Second incisor
- D Molar

**Answer: C**

**Question 66**

Optical fibres are based on the phenomenon of

- A Interference
- B Dispersion
- C Diffraction
- D Total Internal Reflection

**Answer: D**

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**Question 67**

Now-a-days yellow lamps are frequently used as street lights. Which of the following gases is used in these lamps?

- A Sodium
- B Neon
- C Hydrogen
- D Nitrogen

**Answer: A**

**Question 68**

'Mirage' is an example of

- A refraction of light only
- B total internal, reflection of light only
- C refraction and total internal reflection of light
- D dispersion of light only

**Answer: C**

**Explanation:**

A mirage is a naturally occurring optical phenomenon in which light rays bend to produce a displaced image of distant objects or the sky. 'Mirage' is an example of refraction and total internal reflection of light.

**Question 69**

The phenomenon of light associated with the appearance of blue colour of the sky is

- A Interference
- B Reflection
- C Refraction
- D Scattering

**Answer: D**

**General Science Notes for SSC CGL**

**Question 70**

In which of the following areas, a spreadsheet software is more useful?

- A Psychology
- B Publishing
- C Statistics
- D Message sending

**Answer: C**

**Question 71**

A Group Ware is a

- A Hardware
- B Network
- C Software
- D Firmware

**Answer: C**

**Question 72**

Lens is made up of

- A Pyrex glass
- B Flint glass
- C Ordinary glass
- D Cobalt glass

**Answer: B**

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Question 73

The element which is used for vulcanizing rubber

- A Sulphur
- B Bromine
- C Silicon
- D Phosphorus

Answer: A

Question 74

Which of the following is responsible for the extra strength of pyrex glass?

- A Potassium Carbonate
- B Lead Oxide
- C Borax
- D Ferric Oxide

Answer: C

Question 75

The noble gas used for the treatment of cancer is

- A Helium
- B Argon
- C Krypton
- D Radon

Answer: D

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Question 76

Vasundhara Summit was held in

- A USA
- B UK
- C Brazil
- D Australia

Answer: C

Question 77

'Loktak' is a

- A Valley
- B Lake
- C River
- D Mountain Range

**Answer: B**

**Question 78**

**Which city receives the highest cosmic radiation amongst the following?**

- A Chennai
- B Mumbai
- C Kolkata
- D Delhi

**Answer: A**

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**Question 79**

**The common tree species in Nilgiri hills is**

- A Sal
- B Pine
- C Eucalyptus
- D Teak

**Answer: C**

**Question 80**

**Which of the following statements on Railways Budget for 2011-12 is correct?**

- A There would be 10% increase in fares for long distance train travel both by air conditioned and non-air-conditioned classes.
- B There would be 15% increase in freight rates on all goods other than food grains.
- C There would be 15% increase in passenger fares for all classes for long distance travel as well as in freights.
- D There would be no increase in fares for both suburban and long distance train travel

**Answer: D**

**Question 81**

**The nuclear reactors which were damaged heavily due to a strong Earthquake-cum-Tsunami that hit Japan on March 11, 2011 causing radiation leakage were at**

- A Fukushima

- B Kyoto
- C Tokyo
- D None of the above

Answer: A

## Daily Free SSC Practice Set

### Question 82

The maximum limit on poll expenditure for Assembly Constituencies has been raised in February, 2011 to

- A 16 lakhs
- B 18 lakhs
- C 20 lakhs
- D 25 lakhs

Answer: A

### Question 83

First Indian Prime Minister to visit Siachen has been

- A Rajiv Gandhi
- B Inder Kumar Gujral
- C Man Mohan Singh
- D None of the above

Answer: C

### Question 84

Which of the following books has been written by Kishwar Desai?

- A The Red Devil
- B Witness the Night
- C Tonight This Savage Rite
- D Earth and Ashes

Answer: B

## SSC CGL Free Online Coaching

### Question 85

Which of the following folk/tribal dances is associated with Karnataka?

- A Yakshagana
- B Veedhi



C Jatra

D Jhora

**Answer: A**

**Question 86**

**Who is the following received Sangeet Natak Akademi's Ustad Bismillah Khan Yuva puraskar for 2009 in theatre?**

A Omkar Shrikant Dadarkar

B Ragni Chander Sarkar

C Abanti Chakravoty & Sukracharya Rabha

D K. Nellai Manikandan

**Answer: C**

**Question 87**

**Which of the following countries did not win any of the 'FIFA World Cup' in 2002, 2006 & 2010?**

A Brazil

B Argentina

C Spain

D South Africa

**Answer: D**

## **SSC CHSL Previous Question papers (download pdf)**

**Question 88**

**Who invented vaccination for 'Small Pox'?**

A Sir Freedrick Grant Banting

B Sir Alexander Fleming

C Edward Jenner

D Louis Pasteur

**Answer: C**

**Question 89**

**Who was the first Indian to become member of British Parliament?**

A Bankim Chander Chatterjee

B W.C. Bannerjee,

C Dadabhai Naroji

D None of the above

**Answer: C**

**Question 90**

The purchase of shares and bonds of Indian companies by Foreign Institutional Investors is called

- A Foreign Direct Investment
- B Portfolio Investment
- C NRI Investment
- D Foreign Indirect Investment

**Answer: D**

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**Question 91**

BT seed is associated with

- A Rice
- B Wheat
- C Cotton
- D Oil seeds

**Answer: C**

**Question 92**

The Headquarters of International Atomic Energy Agency is in

- A Geneva
- B Paris
- C Vienna
- D Washington

**Answer: C**

**Question 93**

In the Budget Estimates for 2011-12, an allocation of Rs. 400 crore has been made to bring in a green revolution in the East in the rice-based cropping system of

- A Assam & West Bengal only
- B Assam, West Bengal, Orissa & Jharkhand only
- C Assam, West-Bengal, Orissa, Bihar, Jharkhand only
- D Assam, West-Bengal, Orissa, Bihar, Jharkhand, Eastern Uttar Pradesh & Chhatisgarh

**Answer: D**

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### Question 94

In the Budget for 2011-12 presented by the Finance Minister on 28-2-2011, the income-tax exemption limit for senior citizen (60 years to less than 80 years) has been increased to

- A Rs. 2.50 lakh
- B Rs. 2.60 lakh
- C Rs. 2.80 lakh
- D Rs. 3.00 lakh

**Answer: A**

### Question 95

If the Anglo-Indian community does not get adequate representation in the Lok Sabha, two members of the community can be nominated by the

- A Prime Minister
- B President
- C Speaker
- D President in consultation with the Parliament

**Answer: B**

### Question 96

For the election of President of India, a citizen should have completed the age of

- A 25 years
- B 30 years
- C 35 years
- D 18 years

**Answer: C**

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### Question 97

Who said, 'A good citizen makes a good State and bad citizen makes a bad State.'?

- A Plato
- B Rousseau
- C Aristotle
- D Laski

**Answer: C**

**Question 98**

A member of Parliament will lose his membership of Parliament if he is continuously absent from Sessions for

- A 45 days
- B 60 days
- C 90 days
- D 365 days

**Answer: B**

**Question 99**

In India, the Residuary Powers are vested with

- A Union Government
- B State Government
- C Both the Union Government and the State Government
- D Local Government

**Answer: A**

**SSC CGL Free Mock Test**

**Question 100**

What is the name of the place where Buddha attained enlightenment.

- A Sarnath
- B Bodh Gaya
- C Kapilavastu
- D Rajgriha

**Answer: B**

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**Quant**

**Instructions**

For the following questions answer them individually

**Question 101**

If  $\sqrt{1 + \frac{x}{9}} = \frac{13}{3}$

- A 1439/9
- B 160
- C 1443/9

D 169

Answer: B

Explanation:

$$\frac{x}{9} = \frac{169-9}{9}$$

$$\text{or } x = 160$$

## SSC CGL Previous Papers (DOWNLOAD PDF)

Question 102

The sum of two numbers is 24 and their product is 143. The sum of their square is

A 296

B 295

C 290

D 228

Answer: C

Explanation:

$$x^2 + y^2 = (x + y)^2 - 2xy \text{ (where } x \text{ and } y \text{ are two numbers)}$$

$$\begin{aligned} x^2 + y^2 &= 24^2 - 2 \times 143 \\ &= 290 \end{aligned}$$

Question 103

Which one of the following will completely divide  $5^{71} + 5^{72} + 5^{73}$  ?

A 150

B 160

C 155

D 30

Answer: C

Explanation:

Among all options only option C has unit digit 5, and in given equation unit digit will also be 5. So only 155 can divide the given equation completely.

Question 104

L.C.M. of two numbers is 120 and their H.C.F. is 10. Which of the following can be the sum of those two numbers?

A 140

B 80

C 60

D 70

Answer: D

Explanation:

We assume that numbers are  $hr_1$  and  $hr_2$  (where  $h$  = H.C.F. of numbers and  $r_1$  and  $r_2$  are prime factors)

So L.C.M. will be =  $hr_1r_2 = 120$

or  $r_1r_2 = 12$

So  $r_1 = 4$  and  $r_2 = 3$  ; numbers will be 40 and 30, sum is 70

or  $r_1 = 12$  and  $r_2 = 1$  ; numbers will be 120 and 10, sum is 130

Hence only option D justifies.

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### Question 105

When 'n' is divided by 5 the remainder is 2. What is the remainder when  $n^2$  is divided by 5?

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

Answer: D

#### Explanation:

$n = 5k+2$  (where k is quotient )

so  $n^2 = 25k^2 + 4 + 20k$

Now when  $n^2$  will be divided by 5 , remainder will be 4.

### Question 106

A student was asked to divide a number by 6 and add 12 to the quotient. He, however, first added 12 to the number and then divided it by 6, getting 112 as the answer. The correct answer should have been

- A 124
- B 122
- C 118
- D 114

Answer: B

#### Explanation:

Let's say number is N

So according to student result is  $112 = \frac{N+12}{6}$

or  $N = 660$

Correct answer will be =  $\frac{660}{6} + 12 = 110 + 12 = 122$

### Question 107

Four runners started running simultaneously from a point on a circular track. They took 200 seconds, 300 seconds, 360 seconds and 450 seconds to complete the round. After how much time do they meet at the starting point for the first time?

- A 1800 seconds
- B 3600 seconds
- C 2400 seconds
- D 4800 seconds

Answer: A

**Explanation:**

Meeting at the first time will be L.C.M. of time taken by individuals to complete  
i.e. L.C.M. of 200,300,360 and 450 will be equal to 1800 sec.

## SSC CGL Tier-2 Previous Papers PDF

**Question 108**

'x' number of men can finish a piece of work in 30 days. If there were 6 men more, the work could be finished in 10 days less. The original number of men is

- A 6
- B 10
- C 12
- D 15

**Answer: C**

**Explanation:**

Let's say initial  $x$  number of people were there, hence in a day efficiency of 1 man will be =  $\frac{1}{30x}$

For  $x + 6$  same people efficiency of 1 man will be =  $\frac{1}{20(x+6)}$

and both should be equal.

$$\frac{1}{30x} = \frac{1}{20(x+6)}$$

after solving it, we will get  $x = 12$

**Question 109**

A work can be completed by P and Q in 12 days, Q and R in 15 days, R and P in 20 days. In how many days P alone can finish the work?

- A 10
- B 20
- C 30
- D 60

**Answer: C**

**Explanation:**

P+Q will do  $\frac{1}{12}$  amount of work in a day.

Q+R will do  $\frac{1}{15}$  amount of work in a day.

R+P will do  $\frac{1}{20}$  amount of work in a day.

So P+Q+R will do  $\frac{1}{10}$  amount of work in a day.

$$\text{or } P + \frac{1}{15} = \frac{1}{10}$$

So P will do  $\frac{1}{30}$  amount of work in a day.

Hence complete work will be done in 30 days.

**Question 110**

A is thrice as good a workman as B and is, therefore, able to finish a piece of work in 60 days less than B. The time (in days) in which they can do it working together is

- A 22

- B 45/2
- C 23
- D 93/4

**Answer: B**

**Explanation:**

Let's say B finishes a work in  $x$  days

So A will finish in  $\frac{x}{3}$  days

Hence  $x - \frac{x}{3} = \frac{2x}{3} = 60$

So  $x = 90$

Hence together they will do  $\frac{1}{90} + \frac{3}{90} = \frac{4}{90}$  amount of work in a day.

## SSC CGL Important Questions PDF

**Question 111**

A copper wire is bent in the form of square with an area of 121 cm<sup>2</sup>. If the same wire is bent in the form of a circle, the radius (in cm) of the circle is

- A 7
- B 10
- C 11
- D 14

**Answer: A**

**Explanation:**

Area of square is  $121 = (l)^2$  (where  $l$  is length of side)

So length will be = 11

Total length of wire will be = 44

So when it forms a circle, perimeter will be equal to 44

Hence  $2\pi r = 44$

or  $r = 7$

**Question 112**

The areas of three consecutive faces of a cuboid are 12 cm<sup>2</sup>, 20cm<sup>2</sup> and 15 cm<sup>2</sup>, then the volume (in cm<sup>3</sup>) of the cuboid is

- A 3600
- B 100
- C 80
- D 60

**Answer: D**

**Explanation:**

Dimensions of cuboid will be  $3cm. \times 4cm. \times 5cm$

So volume will be 60 cc.

**Question 113**

Water is flowing at the rate of 5 km/h through a pipe of diameter 14 cm into a rectangle tank which is 50 m long, 44 m wide. The time taken, in hours, for the rise in the level of water in the tank to be 7 cm is



- A 2
- B  $3/2$
- C 3
- D  $5/2$

**Answer: A**

**Explanation:**

Volume of water leaving pipe in  $t$  hour should be equal to volume of water in tank with height 7cm.

$$\text{Hence } \pi r^2(v \times t) = (L_{\text{tank}} \times W_{\text{tank}})H$$

Where  $r$  = radius of pipe = 7cm.

$v$  = velocity of water = 5 km/h or  $\frac{2500}{18}$  cm/s.

$t$  = time taken to fill 7 cm.

$L_{\text{tank}}$  = length of tank = 50m

$W_{\text{tank}}$  = width of tank = 40m

$H$  = filled height = 7cm

After putting values, we will get value of  $t = 2\text{hr}$ .

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**Question 114**

The wheel of a motor car makes 1000 revolution in moving 440 m. The diameter (in meter) of the wheel is

- A 0.44
- B 0.14
- C 0.24
- D 0.34

**Answer: B**

**Explanation:**

In 1 revolution, wheel will make a revolution of  $2\pi r$  length. (where  $r$  is radius of wheel)

So in 1000 rev. distance travelled will be  $= 1000 \times 2\pi r = 440$  m

Solving above equation we will get value of diameter = 0.14 m

**Question 115**

The sides of a triangle are in the ratio 2 : 3 : 4. The perimeter of the triangle is 18 cm. The area (in  $\text{cm}^2$ ) of the triangle is

- A 9
- B 36
- C 60
- D  $3\sqrt{15}$

**Answer: D**

**Explanation:**

Let's say sides of a triangle are  $2x$ ,  $3x$  and  $4x$

So perimeter will be  $9x = 18$  cm. or  $x = 2$  cm.

Hence sides will be 4 cm, 6 cm, 8 cm.

Now apply heron's formula for calculating area of this triangle,

$$A = \sqrt{s \times (s - a) \times (s - b) \times (s - c)}$$

(where s is half perimeter of triangle and A is area, a, b and c are sides of triangle)

**Question 116**

Marked price of an article is Rs. 275. Shopkeeper allows a discount of 5% and he gets a profit of 4.5%. The actual cost of the article is

- A 250
- B 225
- C 215
- D 210

**Answer: A**

**Explanation:**

Marked price = 275

Discount = 5%

Selling price =  $\frac{275 \times 95}{100} = 261.25$

gain = 4.5 %

Cost price =  $\frac{261.25 \times 100}{104.5} = 250$

## General Science Notes for SSC CGL

**Question 117**

The difference between a discount of 40% on Rs. 500 and two successive discounts of 36%, 4% on the same amount is

- A Rs. 0
- B Rs. 2
- C Rs. 1.93
- D Rs. 7.20

**Answer: D**

**Explanation:**

After a discount of 40% price will be =  $\frac{500 \times 60}{100} = 300$

After 2 successive discount of 36% and 4% =  $\frac{500 \times 64}{100} = 320$  and  $\frac{320 \times 96}{100} = 307.2$

Hence difference will be 7.2

**Question 118**

If  $x : y = 4 : 5$ , then  $(3x + y) : (5x + 3y) =$

- A 3 : 5
- B 5 : 3
- C 17 : 35
- D 35 : 17

**Answer: C**

**Explanation:**

Given  $y = \frac{4}{5}x$  eq.(1)

Putting value of  $x$  from given equation (1) in terms of  $y$  in equation  $\frac{3x+y}{5x+3y}$

Ratio will be 17:35

**Question 119**

The ratio of the quantities on an acid and water in a mixture is 1 : 3. If 5 liters of acid is further added to the mixture, the new ratio becomes 1 : 2. The quantity of new mixture in litres is

- A 32
- B 40
- C 42
- D 45

**Answer:** D

**Explanation:**

Let's say previously mixture has  $x$  acid and  $3x$  water.

So after adding 5 liters of acid ratio will be  $(x + 5) : 3x = 1:2$

After solving for  $x$ , we will get its value as 10

So new values will be 15 and 30, total will be 45

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**Question 120**

The ratio between two numbers is 2 : 3. If each number is increased by 4, the ratio between them becomes 5 : 7. The difference between the numbers is

- A 8
- B 6
- C 4
- D 2

**Answer:** A

**Explanation:**

Let's say previous numbers =  $2x$  and  $3x$

After increasing =  $2x + 4$  and  $3x + 4$

So  $\frac{2x+4}{3x+4} = \frac{5}{7}$

After solving it we will get  $x$  equal to 8 and numbers will be 16 and 24

Diff. between numbers will be 8.

**Question 121**

Monthly incomes of A and B are in the ratio of 4 : 3 and their expenses bear the ratio 3 : 2. Each of them saves Rs. 6,000 at the end of the month, then the monthly income of A is

- A Rs. 12,000
- B Rs. 24,000
- C Rs. 30,000

D Rs. 60,000

**Answer: B**

**Explanation:**

Let's say monthly incomes of A and B are  $4x$  and  $3x$ .  
and expenses are  $3y$  and  $2y$ .

Savings will be  $4x - 3y$  and  $3x - 2y$  which is equal.

Hence  $4x - 3y = 3x - 2y$  or  $x = y$

So  $4x - 3x = 6000$

$x = 6000$

Monthly income of A will be 24000

**Question 122**

The average of three consecutive odd numbers is 12 more than one third of the first of these numbers. What is the last of the three numbers?

A 15

B 17

C 19

D Data inadequate

**Answer: C**

**Explanation:**

Let's say numbers are  $a, a + 2, a + 4$

So avg. will be  $\frac{(a+a+2+a+4)}{3} = \frac{a}{3} + 12$

Or  $a = 15$

So numbers will be 15, 17, 19

## SSC Exam Free Videos (Youtube)

**Question 123**

The average of 18 observations is recorded as 124. Later it was found that two observations with values 64 and 28 were entered wrongly as 46 and 82. Find the correct average of the 18 observations.

A  $895/8$

B 122

C 123

D 124

**Answer: B**

**Explanation:**

Average of 18 observation = 124

Total observation =  $124 \times 18 = 2232$

Actual total observation will be =  $2232 - (46+82) + (64+28) = 2196$

Actual avg. will be =  $2196 \div 18 = 122$

**Question 124**

If the cost price of 15 articles is equal to the selling price of 12 articles, find gain%

- A 20
- B 25
- C 18
- D 21

**Answer: B**

**Explanation:**

Let's say cost price of 15 articles is  $x$   
 cost price of 12 articles will be =  $\frac{12x}{15}$

selling price of 15 articles is =  $x$

$$\text{gain} = \frac{3x}{15}$$

$$\text{gain\%} = \frac{\frac{3x}{15}}{\frac{12x}{15}} \times 100 = 25$$

**Question 125**

The cost price of an article is 64% of the marked price. The gain percentage after allowing a discount of 12% on the market price is

- A 37.5%
- B 48%
- C 50.5%
- D 52%

**Answer: A**

**Explanation:**

Let's say marked price = 100

Then cost price = 64

and selling price = 88

discount = 24

$$\% \text{discount} = \frac{24}{64} \times 100 = 37.5\%$$

## SSC Free Preparation App

**Question 126**

A man purchased some eggs at 3 for Rs. 5 and sold them at 5 for Rs. 12. Thus he gained Rs. 143 in all. The number of eggs he bought is

- A 210
- B 200
- C 195
- D 190

**Answer: C**

**Explanation:**

cost price of 3 eggs = 5 rs.

cost price of 5 eggs =  $\frac{5}{3} \times 5 = \frac{25}{3}$

selling price of 5 eggs = 12 rs.

gain on 5 eggs =  $12 - \frac{25}{3} = \frac{11}{3}$

hence gain on N number of eggs will be =  $\frac{11N}{15} = 143$

So N will be 195

**Question 127**

X sells two articles for Rs. 4,000 each with no loss and no gain in the transaction. If one was sold at a gain of 25% the other is sold at a loss of

- A 25%
- B %
- C 50 / 3%
- D 20%

**Answer: D**

**Explanation:**

Selling price of first article = 4000

gain = 25%

cost price =  $4000 \times \frac{100}{125} = 3200$

gain = 800 rs.

So for net neutrality loss on second article should be 800 on cost price of 4000.

% loss is =  $\frac{800}{4000} \times 100 = 20$

**Question 128**

20% loss on selling price is what per cent loss on the cost price?

- A 25%
- B 15%
- C  $\frac{50}{3}$  %
- D  $\frac{49}{3}$  %

**Answer: C**

**Explanation:**

selling price = 100 (say)

loss on selling price = 20

cost price = 120

%loss on cost price =  $\frac{20}{120} \times 100 = \frac{50}{3}$

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**Question 129**

If 90% of A = 30% of B and B = x% of A, then the value of x is

- A 800
- B 300
- C 700

D 400

Answer: B

Explanation:

Given, 90% of A = 30% of B,

so  $(90/100)*A = (30/100)*B$

Solving the above equation gives  $B=3A$ ,

B as a % of A =  $(B/A)*100 = 3*100 = 300$

So,  $X = 300$

Question 130

A reduction of 20% in the price of sugar enables me to purchase 5 kg more for Rs. 100. Find the price of sugar per kg before reduction of price.

A Rs. 25

B Rs. 30

C Rs. 32

D Rs. 36

Answer: A

Explanation:

cost of 5 kg. rice = 100 rs.

cost of 1 kg. rice = 20 rs.

Before discount cost price will be =  $20 \times \frac{100}{80} = 25$

Question 131

The price of a commodity rises from Rs. 6 per kg to Rs. 7.50 per kg. If the expenditure cannot increase, the percentage of reduction in consumption is

A 15

B 20

C 25

D 30

Answer: B

Explanation:

Price changes from 6 per kg to 7.5 per kg

let's say consumption changes from  $y$  to  $t$ .

So expenditure will be changed from  $6y$  to  $7.5t$  which is equal.

Hence  $6y = 7.5t$

or  $t = \frac{4y}{5}$

Percentage change in consumption =  $\frac{y}{5} \times 100$

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Question 132

First and second numbers are less than a third number by 30% and 37% respectively. The second number is less than the first by

A 7%

- B 4%
- C 3%
- D 10%

Answer: D

**Explanation:**

Lets assume third number as 100.

As first number is 30% less than third, first number is 70,

And second number is 37% less than third, second number is 63

Difference between first and second number is  $(70-63) = 7$ .

Hence the % diff between first and second numbers is  $(7/70)*100 = 10\%$

**Question 133**

Walking at  $\frac{6}{7}$ th of this usual speed a man is 25 minutes too late. His usual time to cover this distance is

- A 2 hours 30 minutes
- B 2 hours 15 minutes
- C 2 hours 25 minutes
- D 2 hours 10 minutes

Answer: A

**Explanation:**

Let the initial speed and time be  $s, t$  respectively,

then speed and time in the next case are  $\frac{6s}{7}$  and  $(t+25)$

As distance = speed \* time, and distance travelled in both cases is the same,

$$(\frac{6s}{7})*(t+25) = s*t$$

Solving the above equation results in  $t=150\text{min}$

**Question 134**

Walking at 5 km/hr a student reaches his school from his house 15 minutes early and walking at 3 km/hr he is late by 9 minutes. What is the distance between his school and his house?

- A 5 km
- B 8 km
- C 3 km
- D 2 km

Answer: C

**Explanation:**

Let the time and distance be  $t$  mins and  $d$  respectively,

In the first case:

$$\text{Total time taken} = (t - 15) \text{ mins} = (t-15)/60 \text{ hrs.}$$

$$\text{Distance travelled} = 5*(t-15)/60$$

In the second case:

$$\text{Total time taken} = (t + 9) \text{ mins} = (t+9)/60 \text{ hrs.}$$

$$\text{Distance travelled} = 3*(t+9)/60$$

$$\text{So, } 5*(t-15)/60 = 3*(t+9)/60,$$

Solving the above equation we get,  $t=51$

$$\text{So, } d=3*(51+9)/60$$



=3 KMs

## SSC CHSL Previous Question papers (download pdf)

### Question 135

A sum of Rs. 12,000 deposited at compound interest becomes double after 5 years. After 20 years, it will become

- A Rs. 48,000
- B Rs. 96,000
- C Rs. 1,90,000
- D Rs. 1,92,000

**Answer: D**

### Explanation:

As we know  $P(1 + \frac{r}{100})^t$  is amount of compound interest where r is rate, P is principal amount and t is time.

$$\text{So } 12000(1 + \frac{r}{100})^5 = 2 \times 12000$$

$$\text{or } (1 + \frac{r}{100}) = 2^{\frac{1}{5}} \quad \text{eq(1)}$$

Now after 20 years compound interest will be =  $12000(1 + \frac{r}{100})^{20}$

$$\text{or } 12000(2^{\frac{1}{5}})^{20} \quad (\text{from eq.(1)})$$

$$\text{or } 12000 \times 16 = 192000$$

### Question 136

Simple interest on a certain sum for 6 years is  $\frac{9}{25}$  of the sum. The rate of interest is

- A 6%
- B  $13\frac{1}{2}\%$
- C 8%
- D  $17\frac{1}{2}\%$

**Answer: A**

### Explanation:

Simple interest =  $\frac{PRT}{100}$  (where P is principal amount, R is rate and T is time)

$$\text{So } \frac{9P}{25} = \frac{PR \times 6}{100}$$

$$R = 6\%$$

### Question 137

The difference between the compound interest and simple interest for the amount Rs. 5,000 in 2 years is Rs.32. The rate of interest is

- A 5%
- B 8%
- C 10%
- D 12%

**Answer: B**

### Explanation:

Difference between compound interest and simple interest for 2 years will be  
 $= (P((1 + \frac{r}{100})^2) - P) - 2P\frac{r}{100} = 32$  (where P is principal amount 5000 and r is rate )  
 after solving above equation we will get  $r = 8\%$

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### Question 138

The least number, which is to be added to the greatest number of 4 digits so that the sum may be divisible by 345, is

- A 50
- B 6
- C 60
- D 5

**Answer: B**

#### Explanation:

As the summation is divisible by 345 hence it should be a multiple of 345  
 and we are adding the least number in the greatest number of 4 digits that is 9999  
 hence it will be least number of 5 digits which will be divisible by 345 i.e. 10005 ( $345 \times 29$ )  
 so we have to add  $10005 - 9999 = 6$  number in greatest number of 4 digit

### Question 139

$$\frac{4\sqrt{3}+5\sqrt{2}}{\sqrt{48}+\sqrt{18}} = a + b\sqrt{6}$$

- A  $\frac{9}{25}, \frac{-4}{25}$
- B  $\frac{3}{11}, \frac{4}{33}$
- C  $\frac{9}{10}, \frac{2}{5}$
- D  $\frac{3}{5}, \frac{4}{15}$

**Answer: D**

#### Explanation:

First multiplying numerator and denominator with  $\sqrt{2}$   
 than it will be  $\frac{4\sqrt{6}+10}{4\sqrt{6}+6}$

now rationalising it with  $4\sqrt{6} - 6$ , then it will be  $\frac{16\sqrt{6}+36}{60}$   
 or  $10 + \frac{4\sqrt{6}}{15}$

### Question 140

If  $17^{200}$  is divided by 18, the remainder is

- A 1
- B 2
- C 16
- D 17

**Answer: A**

**Explanation:**

$$17^{200} = (18 - 1)^{200}$$

Hence, when it is divided by 18, the remainder equals  $(-1)^{200} = 1$

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**Question 141**

If  $x + 3^{\frac{2^4}{5+6}} = 10$ , the value of  $x$  equals

A  $\frac{1276}{135}$

B  $\frac{53}{6}$

C 435

D 9

**Answer: A**

**Explanation:**

It is given that  $x + 3^{\frac{2^4}{5+6}} = 10$

$$\text{So, } x + 3^{\frac{2^4}{37}} = 10$$

$$\text{Or, } x + \frac{2}{37} = 10$$

$$\text{Or, } x + \frac{74}{135} = 10$$

$$\text{So, } x = \frac{1276}{135}$$

**Question 142**

The unit digit in the sum of  $(124)^{372} + (124)^{373}$  is

A 5

B 4

C 20

D 0

**Answer: D**

**Explanation:**

Both of numbers have unit digit as 4 and it has a repeating cycle of 2 with unit digits as 4 and 6 so in first number power is 372 which is exactly divisible by 2 hence unit digit of first number will be 6. and in second number power is 373 which exceeds one with the repeating cycle of 2 hence its unit digit will be 4.

now unit digit of the sum will be  $6+4 = 10$

**Question 143**

$$3 + \frac{1}{\sqrt{3}} + 3 + \frac{1}{\sqrt{3}} + \frac{1}{\sqrt{3}} - 3$$

A  $3 + \sqrt{3}$

B 3

C 1

D 0

Answer: B



**Explanation:**

Rationalise last two terms and after adding, it will solve out as 3.

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**Question 144**

If  $a * b = a^b$ , then the value of  $5 * 3$  is

A 125

B 243

C 53

D 15

Answer: A

**Explanation:**

Put  $a=5$  and  $b=3$  in given equation

hence it will be  $5^3 = 125$

**Question 145**

If  $1.5x = 0.04y$ , then the value of  $\frac{y^2 - x^2}{y^2 - 2xy + x^2}$

A  $\frac{730}{77}$

B  $\frac{77}{73}$

C  $\frac{73}{770}$

D  $\frac{74}{77}$

Answer: B

**Explanation:**

Given equation can be resolved as  $\frac{(y-x) \times (y+x)}{(y-x)^2}$

or it will be  $\frac{(y+x)}{(y-x)}$

or  $\frac{\left(\frac{y}{x} + 1\right)}{\left(\frac{y}{x} - 1\right)}$

After putting value of  $\left(\frac{y}{x}\right)$  from given equation and solving it

we will get answer as  $\frac{(77)}{(73)}$

**Question 146**

If  $X = 0.3 \times 0.3$ , the value of X is

- A 0.009
- B 0.03
- C 0.09
- D 0.08

Answer: C

**Explanation:**

Expression :  $X = 0.3 \times 0.3$

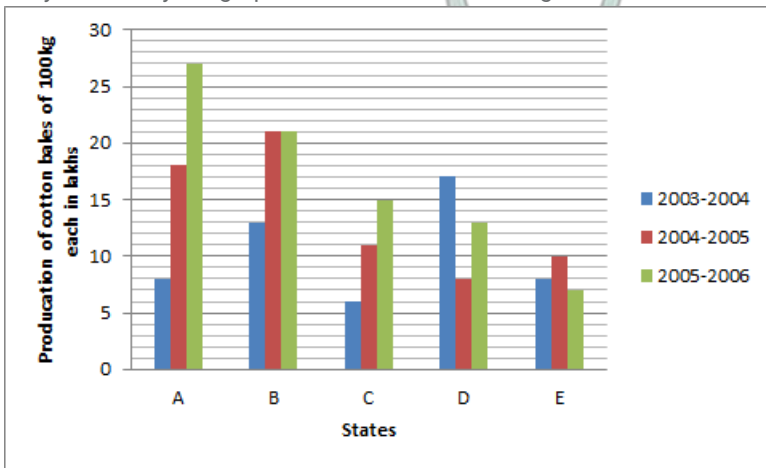
$\Rightarrow X = 0.09$

$\Rightarrow$  Ans - (C)

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**Instructions**

Directions : The following graph shows the production of cotton bales of 100 kg each in lakhs by different states A, B, C, D and E over the years. Study the graph and answer the following Questions.



**Question 147**

The production of State C in 2003-2004 is how many times its production in 2005-2006?

- A 2.5
- B 1.85
- C 1.5
- D 0.4

Answer: D

**Explanation:**

Production of state C in 2003-2004 = 6 unit

Production in 2005-2006 = 15

Hence production in 2003-04 is 0.4 times the production in 2005=06

**Question 148**

In which State(s) is there a steady increase in the production of cotton during the given period?

- A A and B
- B B and D

C A and C

D D and E

**Answer: C**

**Explanation:**

Only in A and C there is a steady increment in production of cotton as in D and E, It is decreased and in B production is equal for two years. Hence answer will be C).

**Question 149**

**How many kg of cotton was produced by State C during the given period?**

A 32,00,00,000 kg

B 42,50,00,000 kg

C 33,00,00,000 kg

D 35,00,00,000 kg

**Answer: A**

**Explanation:**

Production of C in year 2003-2004 = 6 per 100 kg in lakh

in year 2004-05 = 11 per 100 kg in lakh

in year 2005-06 = 15 per 100 kg in lakh

Total will be 32 per 100 kg in lakh or 320000000 kg

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**Question 150**

**The number of States for which the production of cotton in 2005-2006 is less than or equal to the preceding year is**

A 3

B 2

C 1

D There is no such States

**Answer: B**

**Explanation:**

In B, production is same as its previous year whether in C, it is decreased.

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English

**Instructions**

Directions : In the following Questions sentences are given with blanks to be filled in with an appropriate word(s). Four alternatives are suggested for each Question. Choose the correct alternative out of the four.

**Question 151**

**The company let me \_\_\_ time off work.**

A take

- B taking
- C to take
- D took

Answer: A

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Question 152

I assume \_\_\_ with me.

- A every one agreeing
- B that every one agrees
- C every one to agree
- D that every one to agree

Answer: B

Question 153

\_\_\_ the rain forests is very important, if we do not want the flora and fauna found there to become extinct.

- A Reserving
- B Destroying
- C Preserving
- D Maintaining

Answer: C

Question 154

If I had helped him, he \_\_\_\_\_ .

- A will not be drowned
- B would not be drowned
- C will not have drowned
- D would not have drowned

Answer: D

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Question 155

When will you hand \_\_\_ your assignment?

- A in
- B back

C down

D into

**Answer: A**

**Explanation:**

Directions : In the following Questions, out of the four alternatives, choose the one which best expresses the meaning of the given word.

**Question 156**

**Barren**

A good

B wholesome

C unproductive

D profitable

**Answer: C**

**Question 157**

**Infamy**

A notoriety

B glory

C integrity

D familiarity

**Answer: A**

**Question 158**

**Intrepid**

A hesitant

B fearless

C extrovert

D rash

**Answer: B**

**Question 159**

**Prodigal**

A exclusive

B productive

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C lavish

D carefree

**Answer: C**

**Question 160**

**Perspicuous**

A relevant

B precise

C brief

D clear

**Answer: B**

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**Instructions**

Directions : In the following Questions, choose the word opposite in meaning to the given word.

**Question 161**

**Liberty**

A serenity

B slavery

C serfdom

D subordination

**Answer: B**

**Question 162**

**Disorderly**

A chaotic

B organized

C adjusted

D arranged

**Answer: D**

**Question 163**

**Elevation**

A reduction

B humiliation

C depression

D debasement

Answer: C

## General Science Notes for SSC CGL

Question 164

Glossy

A dull

B shining

C weary

D tired

Answer: A

Question 165

Appropriate

A dissimilar

B incomparable

C unsuitable

D disparate

Answer: C

Instructions

Directions: In the following Questions, four alternative for the given idiom/phrase. Choose the alternative which best expresses the meaning of the given idiom/phrase.

Question 166

a damp squib

A rainy weather

B a disappointing result

C a skirt in a laundry

D None of the above

Answer: B

Explanation:

*The correct answer is option -B*

**A damp squib** -something that is disappointing because it is not as exciting or effective as expected

Ex- Although the company was having so much confidence about performance of Suresh, it turns out to be **a damp squib**.

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**Question 167**

**in cold blood**

- A angrily
- B deliberately
- C excitedly
- D slowly

**Answer: B**

**Explanation:**

In cold blood means doing something wrong after giving it some thought. Hence, the appropriate answer is "deliberately".

**Question 168**

**to take someone for a ride**

- A to give a ride to someone
- B to deceive someone
- C to be indifferent
- D to disclose a secret

**Answer: B**

**Explanation:**

To take someone for a ride means to fool someone. Hence, the right answer is option B - to deceive someone.

**Question 169**

**to move heaven and earth**

- A to cause an earthquake
- B to try everything possible
- C to pray to all Gods
- D to travel in a rocket

**Answer: B**

**Explanation:**

*The correct answer is option -B.*

**To move heaven and earth** -to make a major effort to do something

Ex- I have **to move heaven and earth** to clear my exam.

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**Question 170**

**to smell a rat**

- A to smell foul
- B to see a rat

- C to chase a rat
- D to be suspicious

**Answer: D**

**Explanation:**

The correct answer is option -D

**To smell a rat**-To suspect,to believe something is wrong .

Ex- when I got a phone call from an unknown number asking for account details & password I **smelled a rat**.

**Instructions**

Directions : In the following Questions, a sentence is given which/a part of which may need improvement. Alternatives are given at (A), (B) and (C) which may be a better option. In case no improvement is needed your answer is (D).

**Question 171**

**What do you go to school?**

- A For what do you go to school?
- B What do you go for to school?
- C What do you go to school for?
- D No improvement

**Answer: C**

**Explanation:**

The correct answer is option no.C

Wh-questions we use to ask for information.we form Wh questions with -wh word+an auxiliary verb(be,do/have)+subject+main verb.

Wh-word +a modal verb+subject+main verb.

Here 'for' modifies 'GO'.For indicates the purpose,intention behind going school.When question word(Wh words) is the object of the preposition,the preposition most often occurs at the end of the sentence.

**Question 172**

**He pleased the directors and his completed his report in good time.**

- A He pleased the directors in good time and this completed his report.
- B He completed his report in good time and this pleased the directors.
- C He pleased the directors and completed his report and this in good time.
- D No improvement

**Answer: B**

**Explanation:**

The correct answer is option no.B

The sentence is in the simple past tense.It is used to show another completed past action It emphasises that the action is finished

Here the sentence is showing two events.So completion of report must have taken first and then directors would have got pleased.

He completed his project in good time (1st event),& this pleased the directors (2nd event).Since he completed his project in good time,his directors get pleased.

**Question 173**

**The courtiers used to tell the King how efficient an administrator he was all day long.**

- A The courtiers all day long used to tell the King how efficient an administrator he was.
- B The courtiers used all day long to tell the King how efficient an administrator he was.
- C The courtiers used to tell the King all day long how efficient an administrator he was.
- D No improvement

**Answer: C**

**Explanation:**

The correct sentence is option no.C.

All day long is use as an adverb of time.Here it tells how long any action happened.

It modifies adjective `Efficient'.So the proper position of all day long should be before the word `efficient'.

**Question 174**

**Every Saturday I go for shopping.**

- A for shops
- B to shopping
- C for shop
- D No improvement

**Answer: D**

**Explanation:**

The given sentence is correct.

The sentence is in the simple present tense.This tense is mainly used to express an action done as a matter of habit & also used to express daily routine of person.

`For' shopping indicates the present time.whereas `to' indicates the future intention,it doesn't denote specificity.

For -indicates a certain point of time.

To -it tells the time.

To shops,for shops is grammaticality wrong.

**Question 175**

**We had a grand party and we enjoyed very much.**

- A We had a grand party and enjoyed very much.
- B We had a grand party to enjoy very much.
- C We had a grand party and we enjoyed ourselves very much.
- D No improvement

**Answer: C**

**Explanation:**

The correct answer is option C.

After enjoyed , usage of reflexive pronoun(ourselves) will be correct.

Reflexive pronoun -When the action done by the subject reflects or turn back upon the subject (doer),we use reflexive pronoun.Each of the reflexive pronoun is used as a object of a verb & refers to same person or thing as that denoted by subject of the verb.

There are certain verbs with which we use reflexive pronoun.Eg- Acquit,abesnt,avail,resign,apply,adjust,enjoy.

Therefore ,in the given sentence ,

'We'is the subject,'enjoyed' (reflexive verb),so we have to use reflexive pronoun `ourselves'.

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### Instructions

Directions : In the following Questions, our of the four alternatives, choose the one which can be substituted for the given words/sentence.

### Question 176

An inscription on a tomb

- A espionage
- B epilogue
- C epitaph
- D elegy

Answer: C

### Question 177

Feeling inside you which tells you what is right and what is wrong:

- A cleverness
- B conscience
- C consciousness
- D fear

Answer: B

### Question 178

Release of a prisoner from jail on certain terms and condition.

- A Parole
- B Parley
- C Pardon
- D Acquittal

Answer: A

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### Question 179

Loss of memory

- A Ambrosia
- B Amnesia
- C Insomnia
- D Forgetting

**Answer: B**

**Question 180**

**To struggle helplessly**

- A Flounder
- B Founder
- C Fumble
- D Finger

**Answer: A**

**Instructions**

Directions : In the following Questions, groups of four words are given. In each group, one word is correctly spelt. Find the correctly spelt word.

**Question 181**

- A gestalt
- B imbrolios
- C ampasse
- D recondite

**Answer: B**

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**Question 182**

- A hindrance
- B corespondence
- C insurence
- D assurance

**Answer: A**

**Question 183**

- A adversery
- B adulatory
- C advisory

D arbitrary

**Answer: C**

**Question 184**

A rogue

B colleague

C diluge

D allege

**Answer: B**

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**Question 185**

A malignant

B impertinant

C independant

D neglegent

**Answer: C**

**Instructions**

Directions : In the following passage, some of the words have been left out. First read the passage over and try to understand what it is about. Then fill in the blanks with the help of the alternative given. Almost every full moon night, the officials in Andaman and Nicobar Islands take part in a cautious ritual. The tribesmen watch from a safe distance as the officials (186) the island in a boat (187) gifts for them. The islanders come (188) hesitantly only after the officials (189) dumped the coconuts brought (190) them onto the beach and begin (191) away from their small island. On some nights are tribles even (192) up enough courage to swim upto a few feet (193) from the boat. The officials maintain that they do (194) want to interfere with the way of life on the tribals. The island (195) heavily on the maintained for most goods.

**Question 186**

A approach

B depart

C present

D absent

**Answer: A**

**Explanation:**

The correct answer is option -A

Approach -to come or go near.

It is the correct answer.

Depart- to leave.

Present-relating to now

Absent-being away from place,not existing.

Remaining options doesn't add any meaning here



**Question 187**

- A coming
- B leaving
- C carrying
- D relieving

**Answer:** C

**Explanation:**

The correct answer is option - C

Carrying is the correct choice.

Carrying- convey,transfer,move,take,bring,bear,shift, transport.

Meaning of other options

1) Coming- the act of arriving,an arrival

2)leaving-to cause or allow,to remain as available,to refrain from taking away,to stop short of consuming ,to cause,to result in,to put,to place,to depart.

3) reliving-to bring back to life,to revive,to come back to life.

As per the context of passage,only option `carrying' perfectly suits here.

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**Question 188**

- A forward
- B backward
- C sides
- D upward

**Answer:** A

**Explanation:**

The correct answer is option -A

Islanders came forward -towards the front

Backward- in reverse direction.

Sides- on any edge.

Upward- towards a higher place.

Remaining options doesn't add any meaning contextually.

**Question 189**

- A has
- B have
- C had
- D be

**Answer:** B

**Explanation:**

The correct answer is option number -B

Have -As per the Subject verb agreement,verb should agree with the subject.

As in the sentence,officials is in plural form.

So `Have' will be the correct choice.

Remaining options are grammatically incorrect.

**Question 190**

A by

B to

C in

D for

**Answer: D**

**Explanation:**

The correct answer is option number -D

Brought for them -is the Correct construction grammatically & contextually

Brought to -revive, Restore,save, encourage, rekindle

brought by -to carry.

brought in -acquire,yield.

Preposition error is there.

Brought for means to carry,to bring something for someone,in regard of someone.

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**Question 191**

A watching

B seeing

C sailing

D stopping

**Answer: C**

**Explanation:**

The correct answer is option number - C

Sailing here means - travelling by ship

Stopping- a filling for a tooth, blocking

watching-alert, cautious

Seeing -observing, witnessing

All these words doesn't add any meaning here.

**Question 192**

A leave

B muster

C come

D present

**Answer: B**

**Explanation:**

The correct answer is option number -B

Muster up courage -means to gather enough strength to do something.

Here it is saying triabals gather enough courage/strength to swim.

Remaining options doesn't add any meaning here.

**Question 193**

A correctly

B distantly

C near

D away

**Answer: D**

**Explanation:**

The correct answer is option number -D

Away is the correct preposition.

It means -aside,off,in another direction.

Go away,take away.

Near -physically close,closely connected,approaching, almost, immediate,nearly

Correctly - In a correct manner

Distantly- in a distant manner, far off.

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**Question 194**

A no

B neither

C not

D nor

**Answer: C**

**Explanation:**

The correct answer is option number -C

Not - (adverb) - Negates the meaning of idified verb.

Here ex- Do not.

Nor , neither - act as a conjunction.

No - adjective (not any)

Used to show disagreement.

**Question 195**

- A spy
- B rely
- C occupy
- D reply

**Answer:** B

**Explanation:**

The correct answer is option number -B

Rely on -to dependent on.

Spy on - to follow secretly, pursue

Occupy- cover,hold.

Reply- response,retort, acknowledgement.

Rest options doesn't fits here.

**Instructions**

Directions : In the following Questions, some of the sentences have errors and some are correct. Find out which part of a sentence has an error. The number of that part is your answer. If there is no error, the answer is d.

**Question 196**

**A great many student/have been declared/successful./No error.**

- A A great many student
- B have been declared
- C successful.
- D No error.

**Answer:** A

**Explanation:**

The error is in the 1st part of the sentence.

Replace 'Student' with 'Students'.

A great many means a large number of and is used with plurals of countables.

And as per the rule of subject verb agreement,the subject & verb must agree with one another in number and person.

Here , 'A great many is in the plural form. Therefore,the subject of the sentence 'student' should be in the plural form.

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**Question 197**

**We are going to launch/this three-crores project/within the next few months./No error.**

- A We are going to launch
- B this three-crores project
- C within the next few months.
- D No error.

**Answer:** B

**Explanation:**

The error is in the Part B. Units of counting -pair,dozen,gross,hundred,thousand,score when used after numbers retain their singular form.

Also,with exact number we use singular form.Eg-3 crore,2 lakh.

With indefinite plur5al no,we use plural form.

Eg-lakhs of people,crores of rupees.

Here they mentions,3 the exact amount ,which denotes that they are going to launch 3 crore project with in next few months.

If we use `crores' then it denotes the number of projects valuing 3 crores & above .

**Question 198**

**I hope to go to shopping/this weekend/if the weather permits./No error.**

- A I hope to go to shopping
- B this weekend
- C if the weather permits.
- D No error.

**Answer: A**

**Explanation:**

The error is in part A.

Replace `to' with `for'.The correct sentence will be -I hope to go for shopping.

We use `to' when there is uncertainty.

Here in given sentence it is mentioned this weekend.So usage of `For' will be correct.

**Question 199**

**The lawyer asked/if it was worth to take/the matter to court./No error.**

- A The lawyer asked
- B if it was worth to take
- C the matter to court.
- D No error.

**Answer: B**

**Explanation:**

The error is in part B.Replace `worth' with `worthy'.It qualifies `the matter'.The sentence want to imply that whether it is worthy(valuable,having any merit) in taking matter to court.

`Worth' is a preposition or it act as a noun.and in given sentence it doesn't add any meaning.

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**Question 200**

**After a carefully investigation/we discovered/that the house was infested with termites./No error.**

- A After a carefully investigation
- B we discovered

C that the house was infested with termites.

D No error.

**Answer:** A

**Explanation:**

The error is in the Part A. Replace 'carefully' with 'careful'. Carefully is an adverb. It is a word that modifies the meaning of a verb or an adjective or another adverb.

Careful is an adjective. It qualifies a noun or pronoun to add something for its meaning. Here 'Investigation' is a noun. To qualify noun we use adjective.

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