



## SSC CGL 5th March 2020 Shift-1

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# General Intelligence and Reasoning

## Instructions

For the following questions answer them individually

### Question 1

Select the option that is related to the third number in the same way as the second number is related to the first number and the sixth number is related to the fifth number.

72 : 108 :: 84 : ? :: 102 : 153

- A 144
- B 126
- C 117
- D 135

Answer: B

### Explanation:

$$72 + 72/2 = 72 + 36 = 108$$

$$102 + 102/2 = 102 + 51 = 153$$

Similarly,

$$84 + 84/2 = 84 + 42 = 126$$

∴ The correct answer is option B.

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### Question 2

Shaan has a total of ₹5,500 with him. He buys product 'Z' at ₹5,000 from this sum and then sells it to another person, thus making a profit of 15% on it. With all the money he has now, he buys product 'X' and then sells it to another person making a profit of 25% on it. What is the total money Shaan has now?

- A ₹7,812.50
- B ₹7,815.50
- C ₹6,325.50
- D ₹7,187.50

Answer: A

### Explanation:

Cost price of product 'Z' = 5000

Profit = 15%

$$\text{Selling price} = 5000 \times \frac{115}{100} = 5750$$

$$\text{Cost price of product 'X'} = 5750 + 500 = 6250$$

Profit = 25%

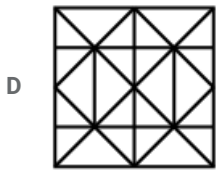
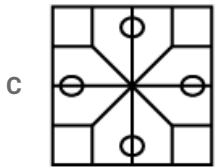
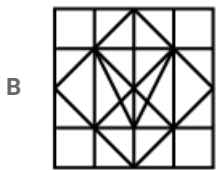
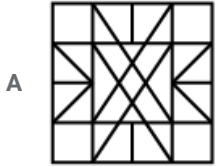
$$\text{Selling price} = 6250 \times \frac{125}{100} = 7812.5$$

Shaan has rs. 7812.5.

∴ The correct answer is option A.

Question 3

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



Answer: B

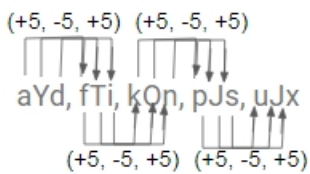
Question 4

Select the letter-cluster that can replace the question mark (?) in the following series.  
aYd, fTi, kOn, pJs, ?

- A VeX
- B uEw
- C uFw
- D uEx

Answer: D

Explanation:



so, next letter-cluster is 'uJx'.  
∴ The correct answer is option D.

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### Question 5

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

- A TVW
- B FHJ
- C LNP
- D DFH

**Answer: A**

#### Explanation:

Except option A remaining all options have the difference of 1 in each letter.

So, 'TVW' is odd.

∴ The correct answer is option A.

### Question 6

Select the option in which the words share the same relationship as that shared by the given pair of words.

**Blunder : Error**

- A Euphoria : Happiness
- B War : Peace
- C Speak : Hear
- D Anger : Rage

**Answer: A**

#### Explanation:

Blunder is similar to error.

Similarly,

Euphoria is similar to happiness.

∴ The correct answer is option A.

### Question 7

Arrange the following in a logical sequence from small to big.

1. Crocodile
2. Lizard
3. Whale
4. Housefly
5. Monkey

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

**Answer: C**

#### Explanation:

Sequence from small to big,  
Housefly, Lizard, Monkey, Crocodile, Whale  
∴ The correct answer is option C.

## SSC CGL Tier-2 Previous Papers PDF

### Question 8

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

- A Plenty
- B Indigence
- C Destitution
- D Penury

Answer: A

#### Explanation:

Except the 'Plenty' remaining all have similar meaning.  
∴ The correct answer is option A.

### Question 9

Select the option in which the numbers are related in the same way as are the numbers in the given set.  
(13, 65, 117)

- A (15, 75, 135)
- B (12, 55, 109)
- C (14, 70, 127)
- D (17, 85, 163)

Answer: A

#### Explanation:

$$13 \times 5 = 65$$

$$13 \times 9 = 117$$

Similarly,

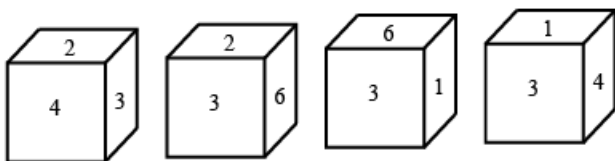
$$15 \times 5 = 75$$

$$15 \times 9 = 135$$

∴ The correct answer is option A.

### Question 10

Four positions of the same dice are shown. Select the number that will be on the face opposite to the one showing '3'.



- A 4
- B 5
- C 6

D 2

Answer: B

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### Question 11

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 from the statements.

**Statements:**

1. All parakeets are cuckoos.
2. All cuckoos are rabbits.
3. All rabbits are snakes.

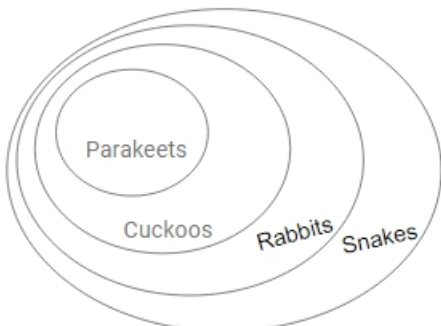
**Conclusions:**

- I. All parakeets are snakes.
- II. All snakes are cuckoos.
- III. All rabbits are parakeets.
- IV. All cuckoos are snakes.

- A Only conclusions II and III follow.  
B Only conclusions I and II follow.  
C Only conclusions I and IV follow.  
D All the conclusions follow.

Answer: C

**Explanation:**



From the Venn diagram,  
Only conclusions I and IV follows.  
∴ The correct answer is option C.

### Question 12

Four number-pairs have been given, out of which three are alike in some manner and one is different. Select the number-pair that is different.

- A 169-197  
B 121-145  
C 289-325  
D 225-241

Answer: D

**Explanation:**

In 169 - 197,  
 $(13)^2 = 169$   
 $(14)^2 + 1 = 196 + 1 = 19$

In 121-145,  
 $(11)^2 = 121$   
 $(12)^2 + 1 = 144 + 1 = 14$

In 289-325,  
 $(17)^2 = 289$   
 $(18)^2 + 1 = 324 + 1 = 32$

In 225-241  
 $(15)^2 = 225$   
 $(16)^2 - 15 = 256 - 15 = 241$

∴ The correct answer is option D.

### Question 13

If each letter of the English alphabet is assigned an odd numerical value in increasing order, such as A = 1, B = 3 and so on, then what will be the code of HONEY?

- A 132725747
- B 152927949
- C 132725745
- D 152927947

Answer: B

#### Explanation:

$$H = 8 + 7 = 15$$

$$O = 15 + 14 = 29$$

$$N = 14 + 13 = 27$$

$$E = 4 + 5 = 9$$

$$Y = 25 + 24 = 49$$

So, Code for 'HONEY' = 152927949

∴ The correct answer is option B.

## SSC CGL Important Questions PDF

### Question 14

Select the number that can replace the question mark (?) in the following series.  
40, 37, 43, 34, 46, ?

- A 31
- B 41
- C 51
- D 61

Answer: A

#### Explanation:

The series follows the pattern as,

$$40 - 3 = 37$$

$$37 + 6 = 43$$

$$43 - 9 = 34$$

$34 + 12 = 46$

$46 - 15 = 31$

∴ The correct answer is option A.

#### Question 15

Which of the option figures is the exact mirror image of the given figure when the mirror is held at the right side?

qv56jk89Im

A mIe8kjðzvp

B mIð8kjðzvp

C pΛzðkj89Im

D mIe8kjðzvp

Answer: D

#### Question 16

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

Ministers : Council :: Sailors : ?

A Sea

B Ship

C Captain

D Crew

Answer: D

#### Explanation:

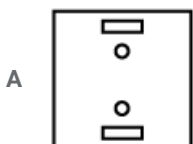
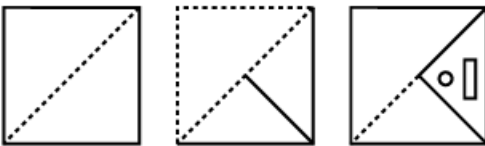
As ministers is related to council similarly,  
Sailors is related to crew.

∴ The correct answer is option D.

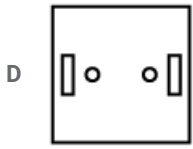
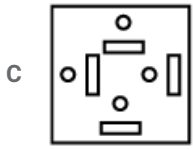
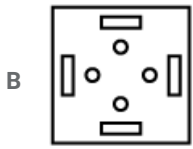
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#### Question 17

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: B

Question 18

Study the given pattern carefully and select the number that can replace the question mark (?) in it.

10	4	14	35
15	3	5	25
14	7	6	12
18	?	8	16

A 7

B 8

C 9

D 6

Answer: C

Explanation:

$$(10 \times 14) \div 35 = 140/35 = 4$$

$$(15 \times 5) \div 25 = 75/25 = 3$$

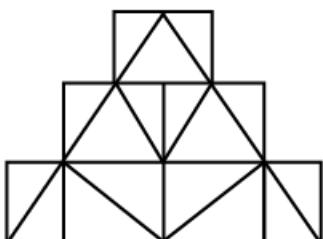
$$(14 \times 6) \div 12 = 84/12 = 7$$

$$(18 \times 8) \div 16 = 144/16 = 9$$

∴ The correct answer is option C.

Question 19

How many triangles are present in the given figure?



A 22

- B 20
- C 23
- D 21

Answer: C

## General Science Notes for SSC CGL

### Question 20

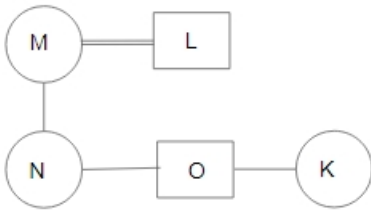
There is a family of five members: K, L, M, N and O. Among them, there is one married couple. O is unmarried and is the brother of K. N is the sister of O. M is the only married female and the mother of N. L and O are the only males in the group. Who is the father of K?

- A O
- B L
- C M
- D K

Answer: B

### Explanation:

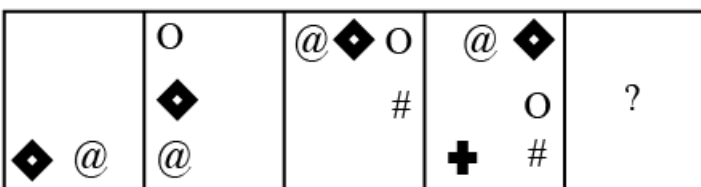
In the diagram, circle shows the female, square shows the male, vertical line shows the generation, horizontal line shows the brother/sister and double horizontal lines show the couple.



From the diagram, L is the father of K.  
∴ The correct answer is option B.

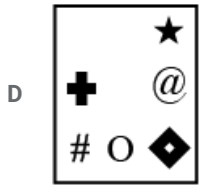
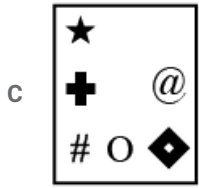
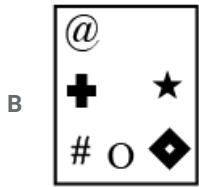
### Question 21

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



- A 

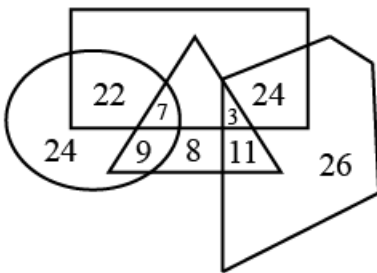
★
+
#
@
♦



Answer: C

Question 22

In the given Venn diagram, the triangle represents students playing table tennis, the rectangle represents students playing badminton, the circle represents female students, and the pentagon represents students playing football. The numbers given in the diagram represent the number of persons in that particular category.



How many female students play both table tennis and badminton?

- A 22
- B 18
- C 7
- D 9

Answer: C

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Question 23

The two given expressions on both sides of the '=' sign will have the same value if two numbers from either side or both sides are interchanged. Select the correct numbers to be interchanged from the given options.

$$3 + 5 \times 4 - 24 \div 3 = 7 \times 4 - 3 + 36 \div 6$$

- A 6, 3
- B 5, 7
- C 4, 7

D 24, 36

**Answer: B**

**Explanation:**

$$3 + 5 \times 4 - 24 \div 3 = 7 \times 4 - 3 + 36 \div 6$$

From option B,

On interchanging 5 and 7,

$$3 + 7 \times 4 - 24 \div 3 = 5 \times 4 - 3 + 36 \div 6$$

$$3 + 28 - 8 = 20 - 3 + 6$$

$$23 = 23$$

∴ The correct answer is option B.

**Question 24**

Select the set of letters that when sequentially placed in the blanks of the given letter series will complete the series.  
f\_hg\_fh\_gf\_hg\_fh\_g

A f, g, h, f, g, h

B g, h, f, g, h, f

C g, f, g, f, h, f

D h, f, g, h, f, g

**Answer: B**

**Explanation:**

Sequence,

fgghf/hfgfgh/ghfhfg

∴ The correct answer is option B.

**Question 25**

In certain code language, U is written as C, K is written as H, L is written as U, N is written as E, S is written as L, E is written as K, and C is written as N. How will 'KNUCKLES' be written as in that language?

A KECNKUHL

B CHUECKN

C HECNHUKL

D HECNHULK

**Answer: C**

**Explanation:**

'KNUCKLES' is written as 'HECNHUKL'.

∴ The correct answer is option C.

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### General Awareness

**Instructions**

For the following questions answer them individually

**Question 26**

Pongal festival is celebrated for four days in Tamil Nadu. What is the fourth day of Pongal called?

- A Thai Pongal
- B Kaanum Pongal
- C Bhogi Pongal
- D Mattu Pongal

**Answer: B**

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### Question 27

Name the law in Physics which states that equal volume of all gases under the same conditions of temperature and pressure contain equal number of molecules.

- A Avogadro's Law
- B Boyles's Law
- C Charles's Law
- D Ohm's Law

**Answer: A**

### Question 28

Which of the following rivers flows through Tiruttani a famous pilgrimage place of South India?

- A Nandi
- B Kaveri
- C Palar
- D Vaigai

**Answer: A**

### Question 29

In which year was the Nahargarh Fort in Jaipur built by Maharaja Sawai Jai Singh II ?

- A 1800
- B 1734
- C 1805
- D 1780

**Answer: B**

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### Question 30

As per the government rules, how much percentage of advance tax needs to be paid by 15th June by an individual who is liable to pay advance tax?

- A 10%
- B 25%
- C 15%
- D 30%

**Answer: C**

**Question 31**

**Which dynasty built the pancha rathas of Mahabalipuram?**

- A Satavahana
- B Pallava
- C Chola
- D Chera

**Answer: B**

**Question 32**

**In which of the following locations was the Quit India Movement launched by Mahatma Gandhi in 1942?**

- A August Kranti Maidan
- B Shivaji Park
- C Pragati Maidan
- D Jallianwala Bagh

**Answer: A**

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**Question 33**

**What was the theme of the 107th Indian Science Congress held in Bengaluru?**

- A Science and Technology: Rural Development
- B Reaching the Unreached through Science and Technology
- C Future India : Science and Technology
- D Science and Technology for National Development

**Answer: A**

**Question 34**

**The researchers of which academic institution employed the nanoscale phenomenon called 'Electrokinetic streaming potential' to harvest energy from flowing water on a small scale like water flowing through household water taps?**

- A IIT Guwahati

- B IIT Delhi
- C IIT Bombay
- D IIT Madras

Answer: A

**Question 35**

In January 2020, B. Sai Deepak set a Guinness World Record for most side lunges in 60 seconds. How many lunges did he do?

- A 50
- B 40
- C 30
- D 59

Answer: D

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**Question 36**

Which National Park among the following is the largest protected area in the Eastern Himalayan sub-region?

- A Jim Corbett National Park
- B Namdapha National Park
- C Keibul Lamjao National Park
- D Bandipur National Park

Answer: B

**Question 37**

Chiropody is a branch of science related to which part of the body?

- A Liver
- B Kidney
- C Feet
- D Lungs

Answer: C

**Question 38**

G. Babita Rayudu took charge as an Executive Director for which of the following organisations in January 2020?

- A The Securities and Exchange Board of India
- B Insurance Regulatory and Development Authority of India
- C Small Industries Development Bank of India

D Bombay Stock Exchange

Answer: A

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Question 39

Which is the first Indian company to hit the ₹10 lakh crore mark in market capitalisation?

A HDFC Bank

B ICICI Bank

C Tata Consultancy Services

D Reliance Industries

Answer: D

Question 40

The 23rd National Youth Festival (NYF) 2020 was celebrated in Lucknow to commemorate the birth anniversary of \_\_\_\_\_.

A Jawaharlal Nehru

B Sardar Vallabhbhai Patel

C Swami Vivekananda

D Mahatma Gandhi

Answer: C

Question 41

The Indian Railways has integrated its helpline numbers into a single number. What is the number?

A 139

B 145

C 150

D 160

Answer: A

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Question 42

The police of which state was honoured with the President's Colours award in December 2019?

A Maharashtra

B Kerala

C Tamil Nadu

D Gujarat



Answer: D

**Question 43**

In which year was the Currency Building in the BBD Bagh or Dalhousie area of Kolkata constructed?

- A 1833
- B 1910
- C 1850
- D 1900

Answer: A

**Question 44**

In terms of area, which state has the largest forest cover in India?

- A Maharashtra
- B Odisha
- C Madhya Pradesh
- D Kerala

Answer: C

## SSC CGL Free Mock Test

**Question 45**

VISHWAS, which is a major e-governance initiative launched by the government in January 2020, is the acronym for which of the following?

- A Video Interface and State Wide Advanced Security
- B Video Integration and System Wide Advanced Security
- C Video Integration and State Wide Advanced Security
- D Video Integration and State Wide Advanced System

Answer: C

**Question 46**

What is the colour of the light emitted by the Sun?

- A Red
- B White
- C Orange
- D Yellow

Answer: B

**Question 47**

The famous 11-day long 'Dhanu Jatra', considered as the largest open-air theatre of the world is celebrated in which state?

- A Meghalaya
- B Assam
- C Odisha
- D Manipur

**Answer: C**

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**Question 48**

Which district has been awarded the Plastic Waste Management Award - 2020 for being the best district of India in the plastic waste management category during Swachhta Hi Seva 2019?

- A Hojai
- B Majuli
- C Dibrugarh
- D Jorhat

**Answer: C**

**Question 49**

Jasprit Bumrah has been selected to receive which of the following awards for his performance in international cricket in the 2018-19 season?

- A C.K. Nayudu
- B Polly Umrigar
- C M.A. Chidambaram
- D Madhavrao Scindia

**Answer: B**

**Question 50**

Ishwar Sharma has been honoured with the Global Child Prodigy Award 2020. What is this award associated with?

- A Sports
- B Yoga
- C Science
- D Literature

**Answer: B**

# SSC CGL Tier-2 Previous Papers PDF

## Quantitative Aptitude

### Instructions

For the following questions answer them individually

### Question 51

In an examination in which the full marks were 500, A scored 25% more marks than B, B scored 60% more marks than C and C scored 20% less marks than D. If A scored 80% marks, then the percentage of marks obtained by is:

- A 65%
- B 60%
- C 50%
- D 54%

Answer: C

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### Question 52

The given table represents the exports (in ₹crores) of four items A, B, C and D over a period of six years. Study the table and answer the question that follows.

Item →	A	B	C	D
Year ↓				
2010	240	128	180	214
2011	250	134	244	282
2012	225	138	230	247
2013	370	169	340	224
2014	425	182	300	309
2015	400	209	306	275

In which year, the exports of item D were 1.4 times the average exports of item B during six years?

- A 2013
- B 2012
- C 2011
- D 2014

Answer: A

### Explanation:

Average exports of item B during six years =  $\frac{128 + 134 + 138 + 169 + 182 + 209}{6}$

(Average = sum of the terms/no. of terms)

=  $960/6 = 160$

1.4 times the average exports of item B during six years =  $1.4 \times 160 = 224$

In year 2013, the exports of item D were 1.4 times the average exports of item B during six years.

### Question 53

If  $x^2 - 2\sqrt{5}x + 1 = 0$ , then what is the value of  $x^5 + \frac{1}{x^5}$ ?

- A  $610\sqrt{5}$
- B  $406\sqrt{5}$
- C  $408\sqrt{5}$
- D  $612\sqrt{5}$

**Answer: A**

**Explanation:**

$$x^2 - 2\sqrt{5}x + 1 = 0$$

Divide by  $x$ ,

$$x - 2\sqrt{5} + \frac{1}{x} = 0$$

$$x + \frac{1}{x} = 2\sqrt{5} \text{---(1)}$$

$$(x + \frac{1}{x})^2 = (2\sqrt{5})^2$$

$$(x + \frac{1}{x})^2 = 20$$

$$x^2 + (\frac{1}{x})^2 + 2 = 20$$

$$x^2 + (\frac{1}{x})^2 = 18 \text{---(2)}$$

From eq(1),

$$(x + \frac{1}{x})^3 = (2\sqrt{5})^3$$

$$x^3 + (\frac{1}{x})^3 + 3(x + \frac{1}{x}) = 40\sqrt{5}$$

$$x^3 + (\frac{1}{x})^3 = 40\sqrt{5} - 3(2\sqrt{5}) = 34\sqrt{5} \text{---(3)}$$

From eq(2) and (3),

$$(x^2 + (\frac{1}{x})^2)(x^3 + (\frac{1}{x})^3) = (18)(34\sqrt{5})$$

$$(x^5 + \frac{1}{x} + x + (\frac{1}{x})^5) = 612\sqrt{5}$$

$$x^5 + \frac{1}{x^5} = 612\sqrt{5} - 2\sqrt{5} = 610\sqrt{5}$$

**Question 54**

Sudha sold an article to Renu for ₹576 at a loss of 20%. Renu spent a sum of ₹224 on its transportation and sold it to Raghu at a price which would have given Sudha profit of 24%. The percentage of gain for Renu is:

- A 13.2%
- B 10.5%
- C 12.9%
- D 11.6%

**Answer: D**

**Explanation:**

$$\text{Cost price for Sudha} = \frac{576}{80} \times 100 = 720$$

$$\text{Cost price for Renu} = 576$$

$$\text{Final cost price for Renu} = 576 + 224 = 800$$

$$\text{Selling price for Renu} = 24\% \text{ profit of sudha}$$

$$= 720 \times \frac{124}{100} = 892.8$$

$$\text{Profit for Renu} = 892.8 - 800 = 92.8$$

$$\text{The percentage of gain for Renu} = \frac{92.8}{800} \times 100 = 11.6\%$$

## SSC CGL Important Questions PDF

### Question 55

If the nine-digit number 708x6y8z9 is divisible by 99, then what is the value of  $x + y + z$ ?

- A 5
- B 27
- C 16
- D 9

**Answer:** C

#### Explanation:

To be divisible by 99, the number has to be divisible by 11 and 9 both.

For divisibility by 11,

$$7 + 8 + 6 + 8 + 9 - 0 + x + y + z$$

$(38 - x + y + z)$  has to be divisible by 11.

For divisibility by 9,

$(38 + x + y + z)$  has to be divisible by 9.

By option C),

$$x + y + z = 16$$

$$(38 - x + y + z) = 38 - 16 = 22 \text{ is divisible by 11.}$$

$$(38 + x + y + z) = 38 + 16 = 54 \text{ is divisible by 9.}$$

### Question 56

The ratio of the ages of A and B, 8 years ago, was 2 : 3. Four years ago, the ratio of their ages was 5 : 7. What will be the ratio of their ages 8 years from now?

- A 4 : 5
- B 5 : 6
- C 7 : 8
- D 3 : 4

**Answer:** A

#### Explanation:

8 years ago the ratio of the ages of A and B = 2 : 3

Let the 8 years ago ages of A and B be  $2x$  and  $3x$  respectively.

$$4 \text{ years ago of A} = 2x + 4$$

$$4 \text{ years ago of B} = 3x + 4$$

Four years ago, the ratio of their ages = 5 : 7

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

$$14x + 28 = 15x + 20$$

$$x = 8$$

$$8 \text{ years from now, Age of A} = 2x + 16 = 2 \times 8 + 16 = 32$$

$$8 \text{ years from now, Age of B} = 3x + 16 = 3 \times 8 + 16 = 40$$

$$\text{Ratio of their ages 8 years from now} = 32 : 40 = 4 : 5$$

### Instructions

The given table represents the exports (in ₹crores) of four items A, B, C and D over a period of six years. Study the table and answer the question that follows.

Item → Year ↓	A	B	C	D
2010	240	128	180	214
2011	250	134	244	282
2012	225	138	230	247
2013	370	169	340	224
2014	425	182	300	309
2015	400	209	306	275

### Question 57

The total exports of item A from 2012 to 2014 is what percentage less than the total exports of all the four items in 2015? (Correct to one decimal place)

- A 16.7%
- B 15.2%
- C 14.3%
- D 13.8%

Answer: C

### Explanation:

The total exports of item A from 2012 to 2014 =  $225 + 370 + 425 = 1020$

The total exports of all the four items in 2015 =  $400 + 209 + 306 + 275 = 1190$

$$\text{Required percentage} = \frac{1190 - 1020}{1190} \times 100 = \frac{170}{1190} \times 100 = 14.28\% \approx 14.3\%$$

## 1500 + Free Must Solved SSC Questions (With Solutions)

### Question 58

What is the ratio of the total exports of item A in 2014 and 2015 to the total exports of item C in 2011 and 2015?

- A 7 : 5
- B 3 : 2
- C 4 : 3
- D 5 : 4

Answer: B

### Explanation:

Total exports of item A in 2014 and 2015 =  $425 + 400 = 825$

Total exports of item C in 2011 and 2015 =  $244 + 306 = 550$

Ratio of the total exports of item A in 2014 and 2015 to the total exports of item C in 2011 and 2015 = 825 : 550 = 3 : 2

### Instructions

For the following questions answer them individually

### Question 59

The average of 24 numbers is 56. The average of the first 10 numbers is 71.7 and that of the next 11 numbers is 42. The next three numbers (i.e., 22<sup>nd</sup>, 23<sup>rd</sup> and 24<sup>th</sup>) are in the ratio  $\frac{1}{2} : \frac{1}{3} : \frac{5}{12}$ . What is the average of the 22<sup>nd</sup> and 24<sup>th</sup> numbers?

- A 58
- B 49.5
- C 55
- D 60.5

Answer: D

### Explanation:

The average of 24 numbers = 56

Sum of the numbers =  $56 \times 24 = 1344$

The average of the first 10 numbers = 71.7

Sum of the first 10 numbers =  $71.7 \times 10 = 717$

The average of the next 11 numbers = 42

Sum of the next 11 numbers =  $42 \times 11 = 462$

Ratio of the next three numbers (i.e., 22<sup>nd</sup>, 23<sup>rd</sup> and 24<sup>th</sup>) =  $\frac{1}{2} : \frac{1}{3} : \frac{5}{12}$

Sum of next three numbers (i.e., 22<sup>nd</sup>, 23<sup>rd</sup> and 24<sup>th</sup>) =  $1344 - 717 - 462 = 165$

$$22^{\text{nd}} \text{ number} = 165 \times \frac{\frac{1}{2}}{\frac{1}{2} + \frac{1}{3} + \frac{5}{12}}$$

$$= 165 \times \frac{1/2}{15/12} = 165 \times \frac{6}{15} = 66$$

$$24^{\text{th}} \text{ number} = 165 \times \frac{\frac{5}{12}}{\frac{1}{2} + \frac{1}{3} + \frac{5}{12}}$$

$$= 165 \times \frac{5/12}{15/12} = 165 \times \frac{1}{3} = 55$$

Average of the 22<sup>nd</sup> and 24<sup>th</sup> numbers =  $\frac{66+55}{2} = 60.5$

### Question 60

If  $P = \frac{x^3+y^3}{(x-y)^2+3xy}$ ,  $Q = \frac{(x+y)^2-3xy}{x^3-y^3}$  and  $R = \frac{(x+y)^2+(x-y)^2}{x^2-y^2}$ , then what is the value of  $(P \div Q) \times R$ ?

- A  $2(x^2 + y^2)$
- B  $x^2 + y^2$
- C  $4xy$
- D  $2xy$

Answer: A

### Explanation:

$(P \div Q) \times R$

$$\begin{aligned}
&= \left( \frac{x^3+y^3}{(x-y)^2+3xy} \div \frac{(x+y)^2-3xy}{x^3-y^3} \right) \times \frac{(x+y)^2+(x-y)^2}{x^2-y^2} \\
&= \frac{x^3+y^3}{(x-y)^2+3xy} \times \frac{x^3-y^3}{(x+y)^2-3xy} \times \frac{(x+y)^2+(x-y)^2}{x^2-y^2} \\
&= \frac{(x+y)(x^2-xy+y^2)}{x^2+y^2-2xy+3xy} \times \frac{(x-y)(x^2+xy+y^2)}{x^2+y^2+2xy-3xy} \times \frac{x^2+y^2+2xy+x^2+y^2-2xy}{(x+y)(x-y)} \\
&= \frac{(x^2-xy+y^2)}{x^2+xy+y^2} \times \frac{(x^2+xy+y^2)}{x^2-xy+y^2} \times 2(x^2+y^2) \\
&= 2(x^2+y^2)
\end{aligned}$$

## General Science Notes for SSC CGL

### Question 61

A shopkeeper bought 80 kg of rice at a discount of 10%. Besides 1 kg rice was offered free to him on the purchase of every 20 kg rice. If he sells the rice at the marked price, his profit percentage will be:

- A  $16\frac{2}{3}\%$
- B  $15\frac{1}{3}\%$
- C  $15\frac{3}{7}\%$
- D  $14\frac{2}{7}\%$

Answer: A

### Explanation:

Let the Price of 1 kg rice be Rs.1.

Total rice bought = 80 kg

He offered 1 kg rice free on the purchase of every 20 kg rice.

Free rice =  $80/20 = 4$  kg

Rate of 80 kg rice = Rs.80

Discount = 10%

Cost price of rice for shopkeeper =  $80 \times \frac{90}{100} = \text{Rs.}72$

Selling price of rice for shopkeeper =  $80 + 4 = \text{Rs.}84$

Profit =  $84 - 72 = \text{Rs.} 12$

Profit percentage =  $\frac{12}{72} \times 100 = 16\frac{2}{3}\%$

### Question 62

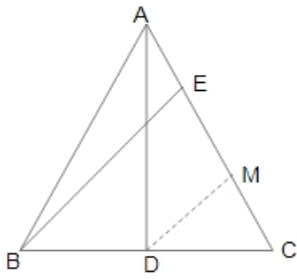
D is the midpoint of side BC of  $\triangle ABC$ . Point E lies on AC such that  $CE = \frac{1}{3}AC$ . BE and AD intersect at G. What is  $\frac{AG}{GD}$ ?

- A 5 : 2
- B 8 : 3
- C 3 : 1
- D 4 : 1

Answer: D

### Explanation:





D is mid point of BC.

To apply the mid point theorem in ADM,

$$\frac{AG}{GD} = \frac{AE}{EM}$$

$$AE = \frac{2AC}{3}$$

$$EC = \frac{AC}{3}$$

$$EM = \frac{EC}{2} = \frac{\frac{AC}{3}}{2} = \frac{AC}{6}$$

$$AG = \frac{2AC}{3}$$

$$\frac{AG}{GD} = \frac{\frac{2AC}{3}}{\frac{AC}{6}} = 4 : 1$$

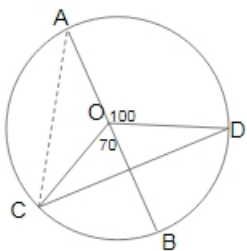
### Question 63

Two chords AB and CD of a circle with centre O intersect each other at P. If  $\angle BOC = 70^\circ$  and  $\angle AOD = 100^\circ$ , then  $\angle APC$  is:

- A  $95^\circ$
- B  $70^\circ$
- C  $65^\circ$
- D  $55^\circ$

Answer: A

Explanation:



$$\angle AOD = 100^\circ$$

$$\angle BOC = 70^\circ$$

$$\angle ACD = \angle ACP = \frac{\angle AOD}{2} = \frac{100}{2} = 50^\circ$$

( $\because$  The angle subtended at the centre is twice to that of angle subtended at the circumference by the same arc)

$$\angle BDC = \angle BAC = \frac{\angle BOC}{2} = \frac{70}{2} = 35^\circ$$

In  $\triangle APC$ ,

$$\angle PAC + \angle ACP + \angle APC = 180$$

$$\angle APC = 180 - 50 - 35$$

$$\angle APC = 95^\circ$$

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

### Question 64

A train takes  $2\frac{1}{2}$  hours less for a journey of 300 km, if its speed is increased by 20 km/h from its usual speed. How much time will it take to cover a distance of 192 km at its usual speed?

- A 3 hours
- B 2.4 hours
- C 4.8 hours
- D 6 hours

**Answer:** C

#### Explanation:

Let the usual speed of train be  $x$  km/hr.

Distance = 300 km

$$\text{Time} = \frac{300}{x} \text{ hours} = \frac{300}{x+20} = 2.5 \text{ hr}$$

Time = distance/speed

According to question,

$$\frac{300}{x} - \frac{300}{x+20} = 2.5$$

$$(x+20) \times 120 - 120x = x(x+20)$$

$$120x + 2400 - 120x = x^2 + 20x$$

$$x^2 + 20x - 2400 = 0$$

$$x^2 + 60x - 40x - 2400 = 0$$

$$x(x+60) - 40(x+60) = 0$$

$$(x+60)(x-40) = 0$$

$$x = 40$$

Distance = 192 km

Time taken to cover distance by usual speed =  $192/40 = 4.8$  hours

### Question 65

If  $2 \cos^2 \theta - 2 \sin^2 \theta + 3 \cos \theta = 3$ ,  $0^\circ < \theta < 90^\circ$ , then what is the value of  $\frac{\csc \theta + \sec \theta}{\tan \theta + \cot \theta}$ ?

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

**Answer:** C

**Explanation:**

$$12 \cos^2 \theta - 2 \sin^2 \theta + 3 \cos \theta = 3$$

$$12 \cos^2 \theta - 2(1 - \cos^2 \theta) + 3 \cos \theta = 3$$

$$14 \cos^2 \theta + 3 \cos \theta = 5$$

Put the value of  $\theta = 60^\circ$ ,

$$14 \cos^2 60^\circ + 3 \cos 60^\circ = 5$$

$$14 \times \frac{1}{2} + 3 \times \frac{1}{2} = 5$$

$$5 = 5$$

L.H.S. = R.H.S.

$$\frac{\operatorname{cosec} \theta + \sec \theta}{\tan \theta + \cot \theta}$$

$$= \frac{\operatorname{cosec} 60^\circ + \sec 60^\circ}{\tan 60^\circ + \cot 60^\circ}$$

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

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

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

**Question 66**

If  $16a^4 + 36a^2b^2 + 81b^4 = 91$  and  $4a^2 + 9b^2 - 6ab = 13$ , then what is the value of  $3ab$ ?

A  $\frac{3}{2}$

B -3

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

D 5

**Answer: C**

**Explanation:**

$$4a^2 + 9b^2 - 6ab = 13$$

$$(4a^2 + 9b^2 - 6ab)^2 = (13)^2$$

$$(\text{because } (a + b + c)^2 = a^2 + b^2 + c^2 + 2(ab + bc + ac))$$

$$(4a^2)^2 + (9b^2)^2 + (6ab)^2 + 2(4a^2 \cdot 9b^2 - 9b^2 \cdot 6ab - 6ab \cdot 4a^2) = 169$$

$$16a^4 + 36a^2b^2 + 81b^4 + 2(36a^2b^2 - 54ab^3 - 24a^3b) = 169$$

$$91 + 2(36a^2b^2 - 54ab^3 - 24a^3b) = 169$$

$$36a^2b^2 - 54ab^3 - 24a^3b = \frac{169 - 91}{2}$$

$$36a^2b^2 - 54ab^3 - 24a^3b = 39$$

$$6ab(6ab - 9b^2 - 4a^2) = 39$$

$$6ab(-13) = 39$$

$$6ab = -3$$

$$3ab = -3/2$$

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**Question 67**

In  $\triangle ABC$ ,  $\angle C = 90^\circ$ ,  $AC = 5$  cm and  $BC = 12$  cm. The bisector of  $\angle A$  meets  $BC$  at  $D$ . What is the length of  $AD$ ?

A  $\frac{2}{3}\sqrt{13}$  cm

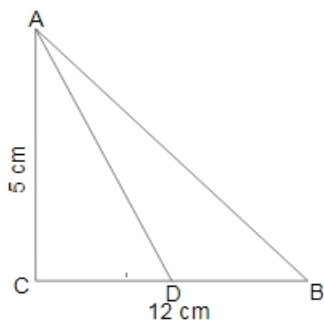
B  $\frac{4}{3}\sqrt{13}$  cm

C  $2\sqrt{13}$  cm

D  $\frac{5\sqrt{13}}{3}$  cm

Answer: D

Explanation:



By the Pythagoras theorem,

$$(AB)^2 = (AC)^2 + (BC)^2$$

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

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

$$(AB)^2 = 25 + 144$$

$$AB = 13 \text{ cm}$$

By angle bisector theorem,

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

Let CD be x cm.

$$\frac{13}{12 - x} = \frac{5}{x}$$

$$13x = 60 - 5x$$

$$x = 60/18 = 10/3$$

In  $\triangle ACD$ ,

$$(AD)^2 = (AC)^2 + (CD)^2$$

$$(AD)^2 = (5)^2 + (\frac{10}{3})^2$$

$$(AD)^2 = 25 + \frac{100}{9}$$

$$(AD)^2 = \frac{325}{9}$$

$$AD = \frac{5\sqrt{13}}{3}$$

**Question 68**

The value of  $\frac{\sec^6 \theta - \tan^6 \theta - 3\sec^2 \theta \tan^2 \theta + 1}{\cos^4 \theta - \sin^4 \theta + 2 \sin^2 \theta + 2}$  is:

A  $\frac{3}{4}$

B  $\frac{2}{3}$

C  $\frac{1}{2}$

D 1

Answer: B

Explanation:

$$\frac{\sec^6 \theta - \tan^6 \theta - 3\sec^2 \theta \tan^2 \theta + 1}{\cos^4 \theta - \sin^4 \theta + 2 \sin^2 \theta + 2}$$

$$= \frac{\sec^6 \theta - \tan^6 \theta - 3\sec^2 \theta \tan^2 \theta (\sec^2 \theta - \tan^2 \theta) + 1}{(\cos^2 \theta + \sin^2 \theta) + 2\sin^2 \theta + 2}$$

$$((a-b)^3 = a^3 - b^3 - 3ab(a-b))$$

$$(a^2 - b^2 = (a+b)(a-b))$$

$$= \frac{(\sec^6 \theta - \tan^6 \theta)^3 + 1}{\cos^2 \theta - \sin^2 \theta + 2\sin^2 \theta + 2}$$

$$= \frac{1+1}{\cos^2 \theta + \sin^2 \theta + 2}$$

$$= \frac{2}{1+2}$$

$$= \frac{2}{3}$$

#### Question 69

Sides AB and DC of cyclic quadrilateral ABCD are produced to meet at E, and sides AD and BC are produced to meet at F. If  $\angle BAD = 102^\circ$  and  $\angle BEC = 38^\circ$  then the difference between  $\angle ADC$  and  $\angle AFB$  is:

A  $21^\circ$

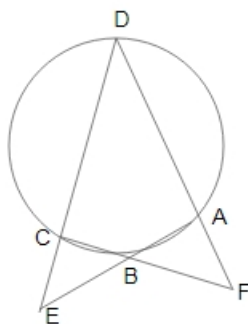
B  $31^\circ$

C  $22^\circ$

D  $23^\circ$

Answer: C

Explanation:



In  $\triangle ADE$ ,  
 $\angle ADE = 180 - (\angle AED + \angle EAD)$   
 $= 180 - (38 + 102)$   
 $= 40^\circ$

$\Rightarrow \angle ADC = 40^\circ$

square ABCD is a cyclic quadrilateral.

$\therefore \angle DCB + \angle DAB = 180$

$\Rightarrow \angle DCB = 180 - \angle DAB$

$\angle DCB = 180 - 102$

$\angle DCB = 78^\circ$

In  $\triangle DFC$ ,

$\angle DFC = 180 - (\angle FDC + \angle FCD)$

$\angle DFC = 180 - (40 + 78)$

$\angle DFC = 180 - 118$

$\angle DFC = 62^\circ$

$\angle AFB = \angle DFC = 62^\circ$ .

Difference between  $\angle BAD$  and  $\angle AFB = 62 - 40 = 22^\circ$

**SSC Free Preparation App**

#### Question 70

If  $5 \sin \theta = 4$ , then the value of  $\frac{\sec \theta + 4 \cot \theta}{4 \tan \theta - 5 \cos \theta}$  is:

A  $\frac{3}{2}$

B 1

C  $\frac{5}{4}$

D 2

**Answer:** D

**Explanation:**

$$5 \sin \theta = 4$$

$$\sin \theta = \frac{4}{5}$$

$$\frac{\text{perpendicular}}{\text{hypotenuses}} = \frac{4}{5}$$

By triplet 3-4-5,

$$\text{Base} = 3$$

$$\cos \theta = \frac{\text{base}}{\text{hypotenuses}} = \frac{3}{5}$$

$$\tan \theta = \frac{\text{perpendicular}}{\text{base}} = \frac{4}{3}$$

$$\frac{\sec \theta + 4 \cot \theta}{4 \tan \theta - 5 \cos \theta}$$

$$= \frac{\frac{1}{\cos \theta} + \frac{4}{\tan \theta}}{4 \tan \theta - 5 \cos \theta}$$

$$= \frac{\frac{1}{3/5} + \frac{4}{4/3}}{4 \times 4/3 - 5 \times 3/5}$$

$$= \frac{\frac{5}{3} + 3}{4 \times 4/3 - 5 \times 3/5}$$

$$= \frac{\frac{14}{3}}{\frac{16}{3} - 3}$$

$$= \frac{14}{7} = 2$$

**Question 71**

The diagonal of a square A is  $(a + b)$  units. What is the area (in square units) of the square drawn on the diagonal of square B whose area is twice the area of A?

A  $(a + b)^2$

B  $4(a + b)^2$

C  $8(a + b)^2$

D  $2(a + b)^2$

**Answer:** D

**Explanation:**

$$\text{Area of square A} = \frac{(\text{diagonal})^2}{2} = \frac{(a + b)^2}{2}$$

$$\text{Area of square B} = 2 \times \text{area of square A} = 2 \times \frac{(a + b)^2}{2} = (a + b)^2$$

$$\text{Side of B} = a + b$$

$$\text{Diagonal of B} = \sqrt{2} \times \text{side} = \sqrt{2}(a + b)$$

$$\text{Area (in square units) of the square drawn on the diagonal of square B} = (\text{side})^2 = (\sqrt{2}(a + b))^2 = 2(a + b)^2$$

Question 72

The given table represents the exports (in ₹crores) of four items A, B, C and D over a period of six years. Study the table and answer the question that follows.

Item → Year ↓	A	B	C	D
2010	240	128	180	214
2011	250	134	244	282
2012	225	138	230	247
2013	370	169	340	224
2014	425	182	300	309
2015	400	209	306	275

The total exports of item D in 2010, 2012 and 2014 is what percentage of the total exports of all the four items in 2011 and 2012?

- A 44.8%
- B 44%
- C 45%
- D 46.2%

Answer: B

**Explanation:**

The total exports of item D in 2010, 2012 and 2014 =  $214 + 247 + 309 = 770$

The total exports of all the four items in 2011 and 2012 =  $250 + 134 + 244 + 282 + 225 + 138 + 230 + 247 = 1750$

Required percentage =  $\frac{770}{1750} \times 100 = 44\%$

## Daily Free SSC Practice Set

Question 73

Pipes A and B can fill a tank in 10 hours and 40 hours, respectively. C is an outlet pipe attached to the tank. If all the three pipes are opened simultaneously, it takes 80 minutes more time than what A and B together take to fill the tank. A and B are kept opened for 7 hours and then closed and C was opened. C will now empty the tank in:

- A 49 hours
- B 38.5 hours
- C 42 hours
- D 45.5 hours

Answer: A

**Explanation:**

Let the total work be 40 units.

(because L.C.M. of 10 and 40 is 40.)

Efficiency of A =  $\text{work}/\text{time} = 40/10 = 4$  units/hour

Efficiency of B =  $40/40 = 1$  unit/hour

Time taken by pipe A and B =  $\frac{40}{4 + 1} = 8$  hours

Time taken by pipe C =  $8 \text{ hours} + 80/60 \text{ hours} = 28/3$  hours

Efficiency of C =  $\frac{40}{28/3} = 30/7$  units/hour

Work done by pipe A and B in 7 hours =  $(1 + 4) \times 7 = 35$  units

Time taken by pipe C to empty the tank =  $\frac{35}{30/7} = 8\frac{5}{7}$

#### Question 74

The compound interest on a certain sum at  $16\frac{2}{3}\%$  p.a. for 3 years is ₹6,350. What will be the simple interest on the same sum at the same rate for  $5\frac{2}{3}$  years?

- A ₹10,200
- B ₹11,400
- C ₹7,620
- D ₹9,600

Answer: A

#### Explanation:

Compound interest = 6350

Rate(r) =  $16\frac{2}{3}\%$  =  $(50/3)\%$

Time(t) = 3 years

Compound interest =  $p(1 + \frac{r}{100})^t - p$

$6350 = p(1 + \frac{50/3}{100})^3 - p$

$6350 = p(1 + \frac{1}{6})^3 - p$

$6350 = p \times \frac{7}{6} \times \frac{7}{6} \times \frac{7}{6} - p$

$6350 = 1.588p - p$

$0.588p = 6350$

$p = 6350/0.588 = 10800$

Simple interest =  $\frac{prt}{100}$

$r = (50/3)\%$

$t = 5\frac{2}{3} = 17/3$

Simple interest =  $\frac{10800 \times (50/3) \times (17/3)}{100} = \text{Rs.}10200$

#### Question 75

The value of  $\frac{3}{2} \div \frac{11}{30}$  of  $\frac{2}{3} - \frac{1}{4}$  of  $2 \frac{1}{2} \div \frac{3}{5} \times 4 \frac{4}{5}$  of  $\frac{2}{5}$  of  $7 \frac{1}{2} \div \frac{3}{4} - \frac{3}{4} \times 1 \frac{1}{2} \div 2 \frac{1}{4}$  is:

- A  $2\frac{6}{7}$
- B  $2\frac{2}{9}$
- C  $3\frac{4}{7}$
- D  $\frac{10}{21}$

Answer: A

#### Explanation:

$\frac{3}{2} \div \frac{11}{30}$  of  $\frac{2}{3} - \frac{1}{4}$  of  $2 \frac{1}{2} \div \frac{3}{5} \times 4 \frac{4}{5}$  of  $\frac{2}{5}$  of  $7 \frac{1}{2} \div \frac{3}{4} - \frac{3}{4} \times 1 \frac{1}{2} \div 2 \frac{1}{4}$

=  $\frac{3}{2} \div \frac{11}{30}$  of  $\frac{2}{3} - \frac{1}{4}$  of  $\frac{5}{2} \div \frac{3}{5} \times \frac{24}{5}$  of  $\frac{2}{5}$  of  $\frac{15}{2} \div \frac{3}{4} - \frac{3}{4} \times \frac{3}{2} \div \frac{9}{4}$

=  $\frac{3}{2} \div \frac{11}{30}$  of  $\frac{11}{45} - \frac{5}{8} \div \frac{3}{5} \times \frac{24}{5}$  of  $\frac{3}{4} - \frac{3}{4} \times \frac{3}{4} \div \frac{9}{4}$



$$= \frac{\frac{11}{3} \times \frac{45}{11} - \frac{5}{8} \times \frac{5}{3} \times \frac{24}{5}}{\frac{3}{2} \times \frac{4}{9}}$$

$$= \frac{15 - 5}{4 - \frac{1}{2}}$$

$$= \frac{10}{\frac{7}{2}}$$

$$= \frac{20}{7} = 2\frac{6}{7}$$

## SSC CGL Free Online Coaching

### English Comprehension

#### Instructions

For the following questions answer them individually

#### Question 76

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

Modern man is completely engross in the mad pursuit of material pleasures and luxuries.

- A mad pursuit of
- B material pleasures and luxuries
- C Modern man is
- D completely engross

Answer: D

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#### Question 77

Select the correct passive form of the given sentence.

They offered me a chair

- A I offered a chair to them.
- B A chair was being offered to me.
- C A chair is offered to me by them.
- D I was offered a chair by them.

Answer: D

#### Question 78

Select the most appropriate meaning of the given idiom

A bed of roses

- A A pleasant perfume
- B An easy and happy situation
- C A difficult path
- D A valley full of flowers

Answer: B

**Question 79**

Select the correct indirect form of the given sentence.

"What a good idea!", Seema remarked.

- A Seema exclaimed that the idea is good.
- B Seema exclaimed that it was a very good idea.
- C Seema said what a good idea it is.
- D Seema told what an idea!

**Answer: B**

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**Question 80**

Select the most appropriate word to fill in the blank.

I like both tea and coffee but prefer the \_\_\_\_\_.

- A last
- B later
- C latter
- D least

**Answer: C**

**Question 81**

Select the most appropriate meaning of the given idiom

A close-fisted person

- A A cruel person
- B A kind person
- C A strong person
- D A miserly person

**Answer: D**

**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:**

A (1) \_\_\_\_\_ of trucks carrying soldiers was coming down the mountain road. The trucks (2) \_\_\_\_\_ slowly as there had been heavy snowfall in that area. Suddenly, with a (3) \_\_\_\_\_ a huge tree on the hill side fell bringing along with it boulders and mud. (4) \_\_\_\_\_, the driver of first truck stopped in time. The soldiers got down and started (5) \_\_\_\_\_ the road.

**Question 82**

Select the most appropriate option for blank no. 1

- A bevy

- B crew
- C convoy
- D flock

Answer: C

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**Question 83**

Select the most appropriate option for blank no. 2

- A are moving
- B were moving
- C was moving
- D has moved

Answer: B

**Question 84**

Select the most appropriate option for blank no. 3

- A crash
- B buzz
- C scream
- D splash

Answer: A

**Question 85**

Select the most appropriate option for blank no. 4

- A Logically
- B Magically
- C Fortunately
- D Similarly

Answer: C

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**Question 86**

Select the most appropriate option for blank no. 5

- A altering
- B clearing

- C moving
- D changing

**Answer: B**

**Instructions**

For the following questions answer them individually

**Question 87**

**Select one word for the following group of words.**

**One who loves his country**

- A Traitor
- B Conspirator
- C Patriot
- D Collaborator

**Answer: C**

**Question 88**

**Select synonym of the given word.**

**RETAIN**

- A Convey
- B Maintain
- C Destory
- D Gain

**Answer: B**

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**Question 89**

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

- A. Aesop was one of them who lived in Greece about 2500 years ago.
- B. He told many interesting stories to the people.
- C. There were many talented people in ancient Greece.
- D. Although he was ugly, he had a very clever brain.

- A CDBA
- B BDAC
- C BADC
- D CADB

**Answer: D**

**Question 90**

Select the most appropriate segment to substitute the underlined segment of the given sentence. If no substitution is required, select 'No substitution'.

Hardly had he sit on the chair than it broke.

- A No substitution
- B sat onto a chair then
- C sit in the chair when
- D sat on the chair when

**Answer: D**

**Question 91**

Select the most appropriate word to fill in the blank.

He tried to \_\_\_\_\_ my ring.

- A steal
- B still
- C stile
- D steel

**Answer: A**

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**Question 92**

Select the most appropriate word to substitute the underlined word of the given sentence. If no substitution is required, select 'No improvement'.

The diver dive in the pool from a great height.

- A dived into the pool
- B dived at the pool
- C dives to a pool
- D No improvement

**Answer: A**

**Question 93**

Select antonym of the given word.

**DEXTERITY**

- A Mastery
- B Skill
- C Ignorance
- D Agility

Answer: C

Question 94

Select the wrongly spelt word.

- A Chouffer
- B Champion
- C Charisma
- D Choir

Answer: A

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Question 95

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

Incapable of paying debts

- A Extravagant
- B Obsolete
- C Corrupt
- D Insolvent

Answer: D

Question 96

Select antonym of the given word.

DIVIDE

- A Unite
- B Break
- C Split
- D Engulf

Answer: A

Question 97

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

My brother, who live in Delhi, has written me a letter.

- A My brother
- B me a letter
- C has written
- D who live in Delhi

Answer: D

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### Question 98

Select synonym of the given word.  
EXPENSIVE

- A Gentle
- B Dear
- C Mild
- D Sober

Answer: B

### Question 99

Select the wrongly spelt word.

- A Cremator
- B Cracker
- C Creator
- D Cricketer

Answer: C

### Question 100

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

- A. He is a gifted volleyball player.
- B. But now a days he does not play international matches.
- C. It is because he had an accident last year.
- D. Sanjay is my best friend.

- A CDBA
- B DABC
- C ABCD
- D DCAB

Answer: B

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