



**2017 SSC CGL 10 Aug Shift-1**

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## Reasoning

### Instructions

For the following questions answer them individually

### Question 1

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

Canada : Ottawa :: ? : ?

- A Egypt : Cairo
- B Norway : Havana
- C France : Rome
- D Kenya : Teheran

Answer: A

### Explanation:

Ottawa is the capital of Canada, similarly Cairo is the capital of Egypt.

Norway's capital = Oslo , France = Paris , Kenya = Nairobi

=> Ans - (A)

## SSC CGL Free Mock Test

### Question 2

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

JQXE : LSZG :: MTNL : ?

- A OPVN
- B KRPN
- C OVPN
- D OPLJ

Answer: C

### Explanation:

Expression : JQXE : LSZG

The pattern followed is :

J	Q	X	E
(+2)	(+2)	(+2)	(+2)
L	S	Z	G

Similarly,

M	T	N	L
(+2)	(+2)	(+2)	(+2)
O	V	P	N

∴ MTNL : OVPN

=> Ans - (C)

**Question 3**

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

7 : 48 :: 11 : ?

- A 120
- B 121
- C 131
- D 170

**Answer:** A

**Explanation:**

Expression : 7 : 48 :: 11 : ?

The pattern followed is :  $n : n^2 - 1$

Eg :  $7 : 7^2 - 1 = 7 : 48$

Similarly,  $11^2 - 1 = 121 - 1 = 120$

=> Ans - (A)

**Question 4**

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

- A Square
- B Rectangle
- C Cylinder
- D Triangle

**Answer:** C

**Explanation:**

Square, rectangle and triangle are 2-D figures, while a cylinder is a 3 dimensional figure.

=> Ans - (C)

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**Question 5**

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

- A A
- B S
- C U
- D I

**Answer:** B

**Explanation:**

All the letters except 'S' are vowels, and thus it is the odd one out.

=> Ans - (B)

**Question 6**

In the following question, select the odd number from the given alternatives.

- A 216
- B 125
- C 343
- D 510

**Answer:** D

**Explanation:**

$$216 = 6^3$$

$$125 = 5^3$$

$$343 = 7^3$$

Only 510 is a non cube number, hence it is the odd one.

=> Ans - (D)

**Question 7**

Arrange the given words in the sequence in which they occur in the dictionary.

1. Dragon
2. Dracula
3. Dormont
4. Drapery
5. Deviate

- A 53214
- B 53124
- C 53421
- D 53412

**Answer:** A

**Explanation:**

As per the dictionary,

= Deviate -> Dormont -> Dracula -> Dragon -> Drapery

≡ 53214

=> Ans - (A)

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**Question 8**

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

KV, LU, MT, ?

- A NS
- B OS

C OU

D SN

**Answer: A**

**Explanation:**

Expression : KV, LU, MT, ?

The first letter of each word is the increasing alphabetical series, so the next letter will be = K,L,M, N

Similarly, the second letter is the decreasing series = V,U,T, S

Thus, next word = NS

=> Ans - (A)

**Question 9**

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

3, 4, 5, 4, 9, 10, 6, 16, 15, 9, 25, 20, 13, 36, ?

A 17

B 25

C 28

D 31

**Answer: B**

**Explanation:**

The given series is a combination of three series with a gap of 2 letters between them which are :

I : 3, 4, 6, 9, 13

II : 4, 9, 16, 25, 36

III : 5, 10, 15, 20

The missing letter is after 36, so it's part of the third series. Clearly, next letter in this series = 25

=> Ans - (B)

**Question 10**

**The ratio of present ages of Anil and Aakash is 4 : 5. Three years later their ages will be in ratio 7 : 8. What is the present age (in years) of Anil?**

A 8

B 6

C 4

D 10

**Answer: C**

**Explanation:**

Let present ages of Anil and Aakash be  $4x$  and  $5x$  years respectively.

According to ques, 3 years later

$$\Rightarrow \frac{4x+3}{5x+3} = \frac{7}{8}$$

$$\Rightarrow 32x + 24 = 35x + 21$$

$$\Rightarrow 35x - 32x = 24 - 21$$

$$\Rightarrow 3x = 3$$

$$\Rightarrow x = 1$$

$\therefore$  Present age of Anil =  $4 \times 1 = 4$  years

$\Rightarrow$  Ans - (C)

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### Question 11

Karan remembers that his sister's birthday is not after 18th August. Karan's mother remembers that Karan's sister birthday is before 20th August but after 17th August. On which date of August is Karan's sister birthday?

A 18

B 17

C 19

D 20

Answer: A

#### Explanation:

According to Karan's mother, his sister's birthday is between 17th and 20th August

$\Rightarrow$  Possible birthday date = 18 or 19

According to Karan, birthday is not after 18 and thus 19 is ruled out.

Thus, Karan's sister birthday is on 18th August.

$\Rightarrow$  Ans - (A)

### Question 12

In the following question, from the given alternative words, select the word which cannot be formed using the letters of the given word.

**Superconductors**

A Sports

B Spunt

C Stern

D Spectrum

Answer: D

#### Explanation:

The word 'SUPERCONDUCTORS' does not contain any 'M' and thus the word 'Spectrum' cannot be formed.

$\Rightarrow$  Ans - (D)

### Question 13

In a certain code language, "PEN-TAN" is written as "0". How is "DEN-COB" written in that code language?

A 8

B 3

C 9

D 7

Answer: B

**Explanation:**

The pattern followed is that for the numerical position of alphabets :

$$\text{"PEN-TAN"} = (16 + 5 + 14) - (20 + 1 + 14) = 35 - 35 = 0$$

$$\text{Similarly, "DEN-COB"} = (4 + 5 + 14) - (3 + 15 + 2) = 23 - 20 = 3$$

=> Ans - (B)

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**Question 14**

If "÷" denotes "multiplied by", "+" denotes "subtracted from", "-" denotes "added to" and "x" denotes "divided by", then which of the following equation is true?

A  $16 + 19 \times 21 - 5 = 201$

B  $5 \times 6 + 4 \div 3 = 37/6$

C  $6 \times 3 + 12 \div 3 = 21$

D  $18 \times 6 \div 8 - 12 = 36$

Answer: D

**Explanation:**

According to ques,  $\div \Leftrightarrow \times$  and  $+\Leftrightarrow -$  and thus the option changes to :

(A) :  $16 - 19 \div 21 + 5 = 201$

L.H.S. =  $21 - 0.9 = 20.1 \neq$  R.H.S.

(B) :  $5 \div 6 - 4 \times 3 = \frac{37}{6}$

L.H.S. =  $\frac{5}{6} - 12 = \frac{-67}{6} \neq$  R.H.S.

(C) :  $6 \div 3 - 12 \times 3 = 21$

L.H.S. =  $2 - 36 = -34 \neq$  R.H.S.

(D) :  $18 \div 6 \times 8 + 12 = 36$

L.H.S. =  $3 \times 8 + 12 = 36 =$  R.H.S.

=> Ans - (D)

**Question 15**

If  $5 \# 9 @ 7 = 52$  and  $3 @ 9 \# 2 = 21$ , then

$7 \# 6 @ 9 = ?$

A 51

B 56

C 43

D 28

Answer: A

**Explanation:**

If  $5 \# 9 @ 7 = 52$  and  $3 @ 9 \# 2 = 21$ , that means ' $\# = *'$  and ' $@ = +'$

Hence,  $7 \# 6 @ 9 = 7 * 6 + 9 = 51$

**Question 16**

In the following question. select the number which can be placed at the sign of question mark (?) from the given alternatives.

3	17
11	4

2	16
10	7

6	13
15	?

A 1

B 2

C 3

D 4

**Answer: A**

**Explanation:**

Sum of the numbers in each box is equal.

Eg :  $3 + 17 + 11 + 4 = 35$

and  $2 + 16 + 10 + 7 = 35$

Similarly,  $6 + 13 + 15 + x = 35$

$\Rightarrow x = 35 - 34 = 1$

$\Rightarrow$  Ans - (A)

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**Question 17**

How many triangles are there in the given figure ?



A 12

B 13

C 15

D 18

**Answer: C**

**Explanation:**

Smaller triangles = 7

Triangles formed at diagonals of smaller square = 4

Triangles formed at diagonals of larger square = 4



Thus, total triangles =  $7 + 4 + 4 = 15$

=> Ans - (C)

### Question 18

In each of the following question below are given some statements followed by some conclusions. Taking the given statements to be true even if they seem to be at variance from commonly known facts, read all the conclusions and then decide which of the given conclusion logically follows the given statements.

**Statements:**

- I. All stars are white.
- II. All white are moon.
- III. No moon is blue.

**Conclusions:**

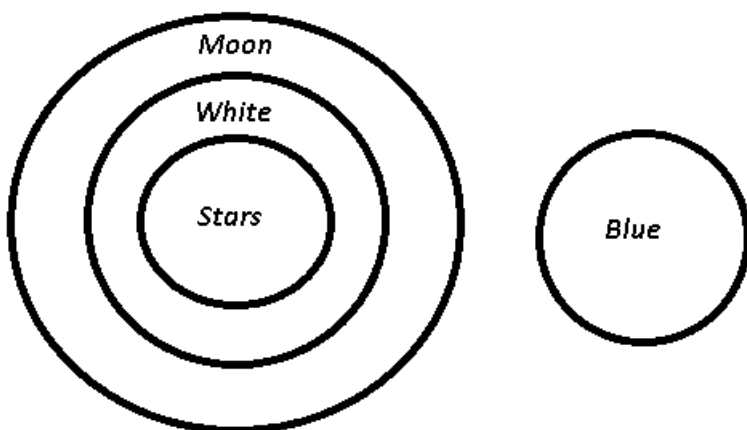
- I. Some moon are stars.
- II. No blue is stars.
- III. Some white are stars.
- IV. Some blue are white.

- A Only conclusion (I) follows.
- B Only conclusion (I), (II) and (III) follows.
- C All conclusions follow.
- D No conclusion follows.

**Answer: B**

**Explanation:**

The venn diagram for above statements is :



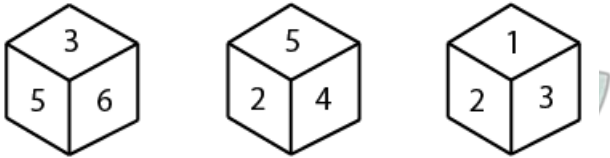
- I. Some moon are stars = true
- II. No blue is stars = true
- III. Some white are stars = true
- IV. Some blue are white. = false

Thus, only conclusion (I), (II) and (III) follows.

=> Ans - (B)

Question 19

Three positions of a cube are shown below. What will come opposite to face containing '5'?



- A 1
- B 3
- C 4
- D 6

Answer: A

**Explanation:**

From the first 2 figures, it is evident that 3, 6, 2 and 4 will not face '5' as they all are adjacent to it.

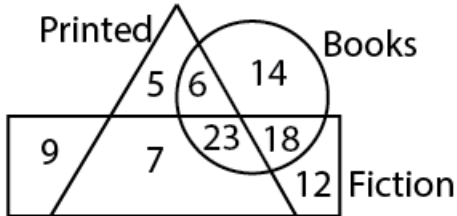
From the third figure, there is only one remaining number which will face '5' that is = '1'

=> Ans - (A)

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Question 20

In the given figure, how many books are fiction ?



- A 23
- B 18
- C 53
- D 41

Answer: D

**Explanation:**

Books are represented by =  $6 + 14 + 18 + 23$

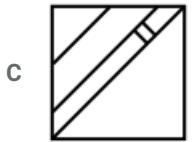
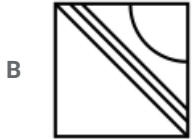
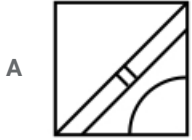
Fiction =  $7 + 9 + 12 + 18 + 23$

Thus, books which are fiction (intersection of both) =  $18 + 23 = 41$

=> Ans - (D)

Question 21

Which answer figure will complete the pattern in the question figure



Answer: D

Explanation:

When we complete the missing figure in the question, we get :

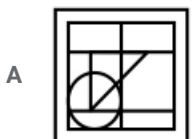
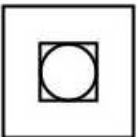


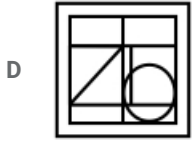
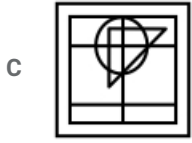
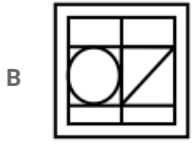
Now, the last figure resembles the figure in blue colour.

=> Ans - (D)

Question 22

From the given answer select in one in which the question figure is hidden / embedded





Answer: B

Explanation:

The question figure is embedded in the following figure and is represented in blue colour.

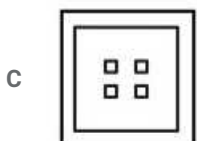
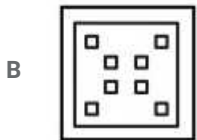
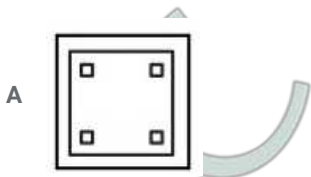
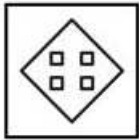


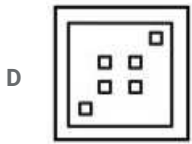
=> Ans - (B)

## General Science Notes for SSC CGL

Question 23

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

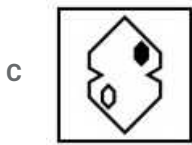
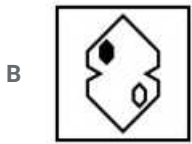
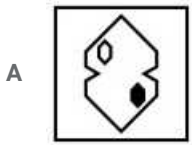
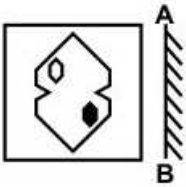




Answer: B

Question 24

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



Answer: D

Explanation:

A vertical mirror is placed, and thus the figure at the left hand side will appear at right and vice-versa. Also, the figure at the top will remain there, thus, the white hexagon will appear at top right and similarly the black one at bottom left in the mirror image.

=> Ans - (D)

Question 25

A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as shown in the given two matrices. The columns and rows of Matrix-I are numbered from 0 to 4 and that of Matrix-II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, for example, 'P' can be represented by 32, 44, etc., and 'U' can be represented by 76, 88, etc. Similarly, you have to identify the set for the word "PALE".

Matrix - I

	0	1	2	3	4
0	R	P	S	I	A
1	I	A	R	P	S
2	P	S	I	A	R
3	A	R	P	S	I
4	S	I	A	R	P

Matrix - II

	5	6	7	8	9
5	L	E	U	G	J
6	G	J	L	E	U
7	E	U	G	J	L
8	J	L	E	U	G
9	U	G	F	L	E

- A 43, 23, 55, 56
- B 33, 30, 67, 75
- C 11, 42, 86, 98
- D 20, 04, 79, 87

Answer: D

Explanation:

- (A) : 43, 23, 55, 56 = RALE
  - (B) : 33, 30, 67, 75 = SALE
  - (C) : 11, 42, 86, 98 = AALL
  - (D) : 20, 04, 79, 87 = **PALE**
- => Ans - (D)

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General Awareness

Instructions

For the following questions answer them individually

Question 26

Which among the following is not an account under Balance of Payment?

- A Current Account
- B Capital Account
- C Official Reserves Account
- D Unilateral Payments Account

Answer: C

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Question 27

Match the following.

**Term**

1. Globalisation
2. Privatisation
3. Liberalisation

**Meaning**

- a. Process of reducing or removing restrictions on international trade
- b. Process of interaction and integration among the people, companies and government of different nations
- c. Called as denationalization or disinvestment

A 1-c, 2-a, 3-b

B 1-b, 2-c, 3-a

C 1-b, 2-a, 3-c

D 1-c, 2-b, 3-a

**Answer: B**

Question 28

Who appoints Governor of a state in India?

A Prime Minister of India

B Council of Minister

C Judge of Supreme Court

D President of India

**Answer: D**

Question 29

What is the literal meaning of 'Certiorari'?

A We command

B To have the body of

C To forbid

D To be certified (or) to be informed

**Answer: D**

Question 30

Which among the following Mughal Emperor was illiterate?

A Shah Jahan

B Aurangzeb

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- C Akbar
- D Jahangir

**Answer: C**

**Question 31**

**Where was the 'Azad Hind Fauj' founded?**

- A Singapore
- B Thailand
- C Britain
- D Italy

**Answer: A**

**Question 32**

**Strait of Malacca separates which two land masses?**

- A Malay Peninsula and Indonesian Island of Sumatra
- B Africa and Europe
- C India and Sri Lanka
- D North America and South America

**Answer: A**

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**Question 33**

**The latitude which passes through Sikkim also passes through \_\_\_\_.**

- A Haryana
- B Rajasthan
- C Uttarakhand
- D Himachal Pradesh

**Answer: B**

**Question 34**

**Which of the following is not a plant hormone?**

- A Gibberellic
- B Auxins
- C Cytokinins
- D Thyroxin



**Answer: D**

**Question 35**

**Nephron is related to which of the following system of human body?**

- A Circulatory system
- B Excretory system
- C Reproductive system
- D Respiratory system

**Answer: B**

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**Question 36**

**Which Vitamin is obtained from Sun rays?**

- A Vitamin A
- B Vitamin C
- C Vitamin K
- D Vitamin D

**Answer: D**

**Question 37**

**Speed of light is maximum in \_\_\_\_.**

- A vacuum
- B solids
- C liquids
- D gases

**Answer: A**

**Question 38**

**What is the SI unit of electric current?**

- A Newton
- B Joule
- C Ampere
- D Watt

**Answer: C**

## SSC CHSL Previous Question papers (download pdf)

Question 39

An IP address is \_\_\_\_ bit number.

- A 8
- B 32
- C 64
- D 104

Answer: B

Question 40

Process of losing electrons is known as \_\_\_\_.

- A oxidation
- B reduction
- C radiation
- D both oxidation and reduction

Answer: A

Question 41

Anions are formed through which process?

- A losing of electrons
- B gaining of electrons
- C gaining of neutrons
- D losing of neutrons

Answer: B

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Question 42

Which among the following is the major cause of acid rain?

- A Carbon dioxide
- B Carbon monoxide
- C Nitrogen dioxide
- D Oxygen

Answer: C

Question 43

First state to implement Saur Sujala Yojana is \_\_\_\_.

- A Chattisgarh
- B Uttaranchal
- C Gujarat
- D Maharashtra

Answer: A

Question 44

Who is known for the invention of 'World Wide Web'?

- A Sir Tim-Berners-Lee
- B Maxwell
- C Martin Cooper
- D S A Forbes

Answer: A

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Question 45

B. Sai Praneeth is associated with which sport?

- A Hockey
- B Badminton
- C Chess
- D Boxing

Answer: B

Question 46

Which of the following pair is incorrect?

- A Muthuswami Dikshitar - Carnatic Music
- B Parveen Sultana - Singer
- C M.S. Gopalakrishnan - Violinist
- D Nandlal Bose - Flute

Answer: D

Question 47

Who among the following is the 2017 Asian Award recipient for the outstanding achievement in Cinema?

- A Kunal Nayyar
- B Vishal Bhardwaj
- C Om Puri
- D Zeishan Quadri

**Answer: A**

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### Question 48

Who amongst the following is the author of the book "Rekha : The untold story" a biography on a veteran actress Rekha?

- A Yasser Usman
- B Anand Neelakantan
- C Ram Kamal Mukherjee
- D K. Vijay Kumar

**Answer: A**

### Question 49

Which among the following country exited from Trans Pacific Partnership (TTP) in Jan 2017 ?

- A Japan
- B USA
- C Mexico
- D Brunei

**Answer: B**

### Question 50

Which of the following country doesn't matches to its famous tourist place?

- A China - Great Wall of China
- B Bhutan - Paro Taktsang
- C Nepal - Pashupatinath Temple
- D Sri Lanka - Padmanabhaswamy Temple

**Answer: D**

**SSC CGL Free Mock Test**

**English**

### Instructions

For the following questions answer them individually

**Question 51**

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

On Sundays (a)/ I prefer reading (b)/ than going out visiting my friends. (c)/ No Error (d)

- A On Sundays
- B I prefer reading
- C than going out visiting my friends
- D No Error

**Answer: C**

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**Question 52**

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

Rohit is two year (a)/ junior than Mukesh (b)/ in the office. (c)/ No Error (d)

- A Rohit is two year
- B junior than Mukesh
- C in the office
- D No Error

**Answer: B**

**Question 53**

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

God is \_\_\_\_.

- A immanent
- B mortal
- C imminent
- D deference

**Answer: A**

**Question 54**

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

Riya \_\_\_\_ her matriculation examination in 2016.

- A completed
- B passed

C obtained

D gathered

Answer: B

## SSC CGL Previous Papers (DOWNLOAD PDF)

Question 55

In the following question, out of the four alternatives, select the word similar in meaning to the word given.

Articulate

A Dominate

B Distinct

C Helpers

D Unsteady

Answer: B

Question 56

In the following question, out of the four alternatives, select the word similar in meaning to the word given.

Ascend

A Lay

B Climb

C Weaken

D Void

Answer: B

Question 57

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

Waggish

A Jocular

B Whimsical

C Flippant

D Solemn

Answer: D

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Question 58

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

Desecrate

- A Sanctify
- B Profane
- C Befoul
- D Defile

Answer: A

**Question 59**

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

**Will-o-the wisp**

- A Something that is impossible to get or achieve.
- B To keep off an unwanted and undesirable person.
- C To spend recklessly.
- D Accept or leave the offer.

Answer: A

**Question 60**

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

**To go through fire and water**

- A To scold someone
- B To experience many dangers in order to achieve something
- C To act without restraints
- D Something which hurts

Answer: B

## SSC CGL Tier-2 Previous Papers PDF

**Question 61**

Improve the bracketed part of the sentence.

We do not (agree on) certain things.

- A agree to
- B agree about
- C agree of
- D No improvement

Answer: D

**Question 62**

Improve the bracketed part of the sentence.

There are two pens here and (either write) well.

- A either have written
- B either wrote well
- C either writes
- D No improvement

**Answer: C**

**Question 63**

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

**A strong blast of wind.**

- A Implosion
- B Trickle
- C Gust
- D Mantle

**Answer: C**

## SSC CGL Important Questions PDF

**Question 64**

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

**Phobia of dogs**

- A Orophobia
- B Cynophobia
- C Vatrachophobia
- D Phemophobia

**Answer: B**

**Question 65**

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

- A Buletin
- B Barrage
- C Buoyant
- D Beginner

**Answer: A**



**Question 66**

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

- A Guidance
- B Ambassador
- C Handkercheif
- D Labourer

**Answer: C**

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**Question 67**

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

**P:** He was a funny looking man with a high, bald, dome shaped head, a face very small in comparison and a long wavy beard.

**Q:** He didn't work at his trade-a stonecutter, more than what was necessary to keep his wife and three boys alive.

**R:** His unusual features were standing a joke among his friends.

**S:** He was a poor man-an idler.

- A PRQS
- B QPSR
- C RQPS
- D SRPQ

**Answer: A**

**Question 68**

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

**P:** When all the credit worthy people were given loans to a logical limit, they ceased to be a part of the market.

**Q:** Even this would have been understandable if it could work as an eye opener.

**R:** Owing to the materialistic culture elsewhere, it was possible to keep selling newer products to the consumers despite having existing ones which served equally well.

**S:** They were lured through advertising and marketing techniques of 'dustbinisation' of the customer; and then finally, once they became ready customers, they were given loans and credits to help them by more and more.

- A PRQS
- B RSPQ
- C QSPR
- D RPQS

**Answer: B**

**Question 69**

In the following question, a sentence has been given in Active/Passive voice. Out of four alternatives suggested, select the one which best expresses the same sentence in Passive/Active voice.

John was arrested on a charge of murder, but for lack of evidence he was released.

- A The police arrested John on a charge of murder, but for lack of evidence released him.
- B John was arrested on a charge of murder but was released for lack of evidence.
- C The police arrested John on a charge of murder, but for lack of evidence he was released.
- D John had been arrested on a charge of murder, but for lack of evidence he had been released.

**Answer: A**

**General Science Notes for SSC CGL**

**Question 70**

In the following question, a sentence has been given in Direct/Indirect speech. Out of the four alternatives suggested, select the one which best expresses the same sentence in Indirect/Direct speech.

He said, "I saw a snake here."

- A He said that he had seen a snake there.
- B He said that he saw a snake here.
- C He said that he saw a snake there.
- D He said that he had seen a snake.

**Answer: A**

**Instructions**

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

Morality is \_\_ (1) \_\_ with ethics and symbolises the doctrine of actions right or wrong. Politics is the \_\_ (2) \_\_ of expediency and need not always be \_\_ (3) \_\_. If something is wrong and \_\_ (4) \_\_ expedient, it cannot be \_\_ (5) \_\_.

**Question 71**

(1)

- A discussed
- B identified
- C recognised
- D rectified

**Answer: B**

**Question 72**

(2)

- A source

- B collection
- C requirement
- D notion

Answer: D

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Question 73

(3)

- A wrong
- B right
- C neutral
- D different

Answer: B

Question 74

(4)

- A merely
- B essentially
- C surely
- D hardly

Answer: A

Question 75

(5)

- A justifiable
- B relevant
- C acquired
- D immoral

Answer: D

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### Mathematics

#### Instructions

For the following questions answer them individually

Question 76

How many numbers are there from 2000 to 7000 which are both perfect squares and perfect cubes?

- A 0
- B 1
- C 2
- D 3

**Answer: B**

**Explanation:**

Numbers which are both perfect squares and perfect cubes are of the form  $= k^6$ , where  $k$  is a natural number.

Thus, numbers are  $= (1)^6, (2)^6, (3)^6, (4)^6, (5)^6$

$= 1, 64, 729, 4096, 15625$ , and so on

From the list of above numbers, we can see that only 1 number i.e. 4096 lies between 2000 and 7000

$\Rightarrow$  Ans - (B)

## SSC Free Preparation App

**Question 77**

3 men or 4 women can complete a job in 120 days. 12 men and 16 women will complete the same job in how many days?

- A 12
- B 14
- C 15
- D 18

**Answer: C**

**Explanation:**

Let work done by 1 man in 1 day =  $m$  and work done by 1 woman in 1 day =  $w$

$\Rightarrow$  Work done by 3 men in 1 day =  $\frac{1}{120}$

$$\Rightarrow 3m = \frac{1}{120}$$

$$\Rightarrow m = \frac{1}{360}$$

Similarly, work done by 4 women =  $4w = \frac{1}{120}$

$$\Rightarrow w = \frac{1}{480}$$

Thus, work done by 12 men and 16 women in 1 day =  $12m + 16w$

$$= 12\left(\frac{1}{360}\right) + 16\left(\frac{1}{480}\right)$$

$$= \frac{1}{30} + \frac{1}{30} = \frac{2}{30} = \frac{1}{15}$$

$\therefore$  Time taken by 12 men and 16 women to complete the work = 15 days

$\Rightarrow$  Ans - (C)

**Question 78**

If the diameter of a hemisphere is 21 cm, then what is the volume ( $incm^3$ ) of hemisphere?

- A 2810

- B 1250.5
- C 1725.25
- D 2425.5

Answer: D

**Explanation:**

Radius of hemisphere =  $\frac{21}{2}$  cm

=> Volume of hemisphere =  $\frac{2}{3} \pi r^3$

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

$$= 11 \times (21)^2 \times \frac{1}{2}$$

$$= \frac{4851}{2} = 2425.5 \text{ cm}^3$$

=> Ans - (D)

**Question 79**

After two successive discounts of 20% and 12% an article is sold for Rs 16896. What is the marked price (in Rs) of the article?

- A 21500
- B 23800
- C 22000
- D 24000

Answer: D

**Explanation:**

Let marked price = Rs.  $100x$

After first discount of 20%, price =  $100x \times \frac{(100-20)}{100} = 80x$

After second discount of 12%, price =  $80x \times \frac{(100-12)}{100} = 70.4x$

According to ques,

$$\Rightarrow 70.4x = 16896$$

$$\Rightarrow x = \frac{16896}{70.4} = 240$$

$\therefore$  Marked price =  $100 \times 240 = \text{Rs. } 24,000$

=> Ans - (D)

## Daily Free SSC Practice Set

**Question 80**

The ratio of speed of three racers is 3 : 4 : 6. What is the ratio of time taken by the three racers to cover the same distance?

- A 3:4:6
- B 6:4:3
- C 4:3:2
- D 2:3:5

Answer: C

**Explanation:**

Ratio of speed = 3 : 4 : 6

Also,  $speed \propto \frac{1}{time}$

=> Ratio of time taken =  $\frac{1}{3} : \frac{1}{4} : \frac{1}{6}$

Multiplying by L.C.M.(3,4,6) = 12

=  $12\left(\frac{1}{3} : \frac{1}{4} : \frac{1}{6}\right)$

= 4 : 3 : 2

=> Ans - (C)

**Question 81**

In a match, average of runs scored by 7 players is 53. If the runs scored by 6 players are 121, 40, 26, 56, 37 and 48, then how many runs did the 7th player scored?

A 26

B 37

C 43

D 48

Answer: C

**Explanation:**

Average runs scored by 7 players = 53

=> Total runs scored by the 7 players =  $53 \times 7 = 371$

Total runs scored by the first 6 players =  $121 + 40 + 26 + 56 + 37 + 48 = 328$

$\therefore$  Runs scored by the 7th player =  $371 - 328 = 43$

=> Ans - (C)

**Question 82**

Mohit buys an old bicycle for Rs 2700 and spends Rs 500 on its repairs. If he sells the bicycle for Rs 3520, then what is his profit percentage?

A 10

B 12.5

C 15

D 20

Answer: A

**Explanation:**

Total cost price of bicycle including repairs =  $2700 + 500 = \text{Rs. } 3200$

Selling price = Rs. 3520

=> Profit % =  $\frac{(3520 - 3200)}{3200} \times 100$

=  $\frac{320}{3200} = 10\%$

=> Ans - (A)

Question 83

If the price of onion increases from Rs 24/kg to Rs 36/kg, then by what percentage a household should decrease the consumption of onion so that expenditure remains same?

- A 25
- B 33.33
- C 50
- D 20

Answer: B

Explanation:

Let initial consumption =  $x$  kg and price = Rs. 24

=> Expenditure = Rs.  $24x$

Let consumption after increase in prices =  $y$  kg, => Expenditure = Rs.  $36y$

According to ques,

$$\Rightarrow 24x = 36y$$

$$\Rightarrow \frac{x}{y} = \frac{36}{24} = \frac{3}{2}$$

Let  $x = 3$  and  $y = 2$

$$\therefore \text{Percentage a household should decrease the consumption} = \frac{(x-y)}{x} \times 100$$
$$= \frac{3-2}{3} \times 100 = 33.33\%$$

=> Ans - (B)

Question 84

A train travels 20% faster than a car. Both start from point A at the same time and reach point B, 180 km away at the same time. On the way the train takes 30 minutes for stopping at the stations. What is the speed (in km/hr) of the train?

- A 56
- B 66
- C 72
- D 80

Answer: C

Explanation:

Let speed of car =  $100x$  km/hr

$$\Rightarrow \text{Speed of train} = 100x \times \frac{120}{100} = 120x \text{ km/hr}$$

$$\text{Total time taken by train to reach point B} = \left( \frac{180}{120x} + \frac{30}{60} \right) \text{ hours}$$

$$\text{and time taken by car} = \frac{180}{100x} \text{ hours}$$

According to ques,

$$\Rightarrow \frac{180}{120x} + \frac{1}{2} = \frac{180}{100x}$$

$$\Rightarrow \frac{180}{100x} - \frac{180}{120x} = \frac{1}{2}$$

$$\Rightarrow \frac{180}{20x} \left( \frac{1}{5} - \frac{1}{6} \right) = \frac{1}{2}$$

$$\Rightarrow x \left( \frac{1}{30} \right) = \frac{1}{2}$$

$$\Rightarrow x = \frac{18}{30} = \frac{3}{5}$$

$$\therefore \text{Speed of train} = 120 \times \frac{3}{5} = 72 \text{ km/hr}$$

$\Rightarrow$  Ans - (C)

#### Question 85

A sum of Rs 720 amounts to Rs 882 at simple interest in  $1\frac{1}{2}$  years. In how many years will the sum Rs 800 amounts to Rs 1040 at the same rate?

A 2

B 4

C  $31/7$

D  $33/7$

Answer: A

Explanation:

Let rate of interest =  $r\%$

Simple interest for  $1\frac{1}{2} = \frac{3}{2}$  years =  $(882 - 720) = \text{Rs. } 162$

$$\Rightarrow \frac{P \times r \times t}{100} = 162$$

$$\Rightarrow \frac{720 \times r \times \frac{3}{2}}{100} = 162$$

$$\Rightarrow 10.8r = 162$$

$$\Rightarrow r = \frac{162}{10.8} = 15\%$$

Let time taken when Rs 800 amounts to Rs 1040 =  $t$  years

$$\Rightarrow \frac{800 \times 15 \times t}{100} = (1040 - 800)$$

$$\Rightarrow 120t = 240$$

$$\Rightarrow t = \frac{240}{120} = 2 \text{ years}$$

$\Rightarrow$  Ans - (A)

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

#### Question 86

If  $\left(\frac{x}{y}\right)^{a-4} = \left(\frac{y}{x}\right)^{2a-5}$ , then what is the relation between  $x$  and  $y$ ?

A  $x > y$

B Cannot be determined

C  $x < y$

D  $x = y$

Answer: B

Explanation:



Given :  $\left(\frac{x}{y}\right)^{a-4} = \left(\frac{y}{x}\right)^{2a-5}$

$\Rightarrow \left(\frac{y}{x}\right)^{4-a} = \left(\frac{y}{x}\right)^{2a-5}$

$\Rightarrow 4 - a = 2a - 5$

$\Rightarrow 2a + a = 5 + 4 = 9$

$\Rightarrow a = \frac{9}{3} = 3$

$\therefore \left(\frac{x}{y}\right)^{3-4} = \left(\frac{y}{x}\right)^{2(3)-5}$

$\Rightarrow \left(\frac{x}{y}\right)^{-1} = \left(\frac{y}{x}\right)^1$

$\Rightarrow \frac{y}{x} = \frac{y}{x}$

Thus, relation cannot be established.

$\Rightarrow$  Ans - (B)

**Question 87**

If  $x + \frac{1}{x} = 3$ , then what is the value of  $\frac{x^4+5x^3+3x^2+5x+1}{x^4+1}$  ?

A 25/7

B 4

C 31/7

D 33/7

**Answer: A**

**Explanation:**

Given :  $x + \frac{1}{x} = 3$

$\Rightarrow \frac{x^2+1}{x} = 3$

$\Rightarrow x^2 + 1 = 3x$  -----(i)

Squaring both sides, we get :

$\Rightarrow (x^2 + 1)^2 = (3x)^2$

$\Rightarrow x^4 + 1 + 2x^2 = 9x^2$

$\Rightarrow x^4 + 1 = 9x^2 - 2x^2 = 7x^2$  -----(ii)

To find :  $\frac{x^4+5x^3+3x^2+5x+1}{x^4+1}$

$= \frac{(x^4+1)+5x(x^2+1)+3x^2}{(x^4+1)}$

Substituting values from equations (i) and (ii),

$= \frac{7x^2+5x(3x)+3x^2}{7x^2}$

$= \frac{25x^2}{7x^2} = \frac{25}{7}$

$\Rightarrow$  Ans - (A)

**Question 88**

If  $3a - \frac{3}{a} - 3 = 0$ , then what is the value of  $a^3 - \frac{1}{a^3} + 2$  ?

A 0

B 2

C 4

D 6

Answer: D

Explanation:

$$\text{Given : } 3a - \frac{3}{a} - 3 = 0$$

$$\Rightarrow 3\left(a - \frac{1}{a}\right) = 3$$

$$\Rightarrow a - \frac{1}{a} = 1 \text{ -----(i)}$$

Cubing both sides, we get :

$$\Rightarrow \left(a - \frac{1}{a}\right)^3 = (1)^3$$

$$\Rightarrow a^3 - \frac{1}{a^3} - 3\left(a\right)\left(\frac{1}{a}\right)\left(a - \frac{1}{a}\right) = 1$$

$$\Rightarrow a^3 - \frac{1}{a^3} - 3(1) = 1$$

Adding '2' on both sides,

$$\Rightarrow a^3 - \frac{1}{a^3} + 2 = 1 + 3 + 2 = 6$$

$\Rightarrow$  Ans - (D)

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

Question 89

If  $\frac{x+\sqrt{x^2-1}}{x-\sqrt{x^2-1}} + \frac{x-\sqrt{x^2-1}}{x+\sqrt{x^2-1}} = 194$ , then what is the value of x?

A 7/2

B 4

C 7

D 14

Answer: C

Explanation:

$$\text{Given : } \frac{x+\sqrt{x^2-1}}{x-\sqrt{x^2-1}} + \frac{x-\sqrt{x^2-1}}{x+\sqrt{x^2-1}} = 194$$

$$\Rightarrow \frac{(x+\sqrt{x^2-1})^2 + (x-\sqrt{x^2-1})^2}{(x-\sqrt{x^2-1})(x+\sqrt{x^2-1})} = 194$$

$$\Rightarrow \frac{(x^2+x^2-1+2x\sqrt{x^2-1}) + (x^2+x^2-1-2x\sqrt{x^2-1})}{x^2 - (x^2-1)} = 194$$

$$\Rightarrow \frac{4x^2-2}{1} = 194$$

$$\Rightarrow 4x^2 = 194 + 2 = 196$$

$$\Rightarrow x^2 = \frac{196}{4} = 49$$

$$\Rightarrow x = \sqrt{49} = 7$$

$\Rightarrow$  Ans - (C)

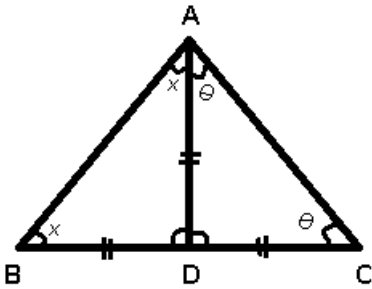
Question 90

In  $\Delta ABC$ , AD is the median and  $AD = (1/2)BC$ . If  $\angle ACD = 40^\circ$ , then what is the value (in degrees) of  $\angle DAB$ ?

- A 30
- B 40
- C 50
- D 80

Answer: C

Explanation:



$AD = (1/2)BC$  and  $AD$  is the median which bisects  $BC$  at  $D$ ,  $\Rightarrow AD = BD = CD$

$\Rightarrow \triangle ADC$  and  $\triangle ABD$  are isosceles triangles.

Let  $\angle ACD = \angle CAD = \theta = 40^\circ$  -----(i)

$\Rightarrow \angle ADC = (180^\circ - 2\theta)$

Now,  $\angle ADB$  and  $\angle ADC$  are supplementary

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

$\Rightarrow \angle ADB = 180^\circ - (180^\circ - 2\theta) = 2\theta$

Also,  $\angle ABD = \angle BAD = x$

In  $\triangle ABD$ ,  $\Rightarrow \angle ABD + \angle BAD + \angle ADB = 180^\circ$

$\Rightarrow x + x + 2\theta = 180^\circ$

$\Rightarrow 2(x + \theta) = 180^\circ$

$\Rightarrow x + 40^\circ = \frac{180}{2} = 90^\circ$  [Using equation (i)]

$\Rightarrow x = 90 - 40 = 50^\circ$

$\Rightarrow$  Ans - (C)

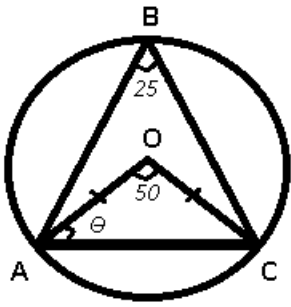
**Question 91**

Circum-centre of  $\triangle ABC$  is  $O$ . If  $\angle BAC = 75^\circ$  and  $\angle BCA = 80^\circ$ , then what is the value (in degrees) of  $\angle OAC$ ?

- A 45
- B 65
- C 90
- D 95

Answer: B

Explanation:



Given : O is the circum-centre of triangle ABC.  $\angle BAC = 75^\circ$ ,  $\angle BCA = 80^\circ$

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

Solution : In  $\triangle ABC$

$$\Rightarrow \angle A + \angle B + \angle C = 180^\circ$$

$$\Rightarrow 75^\circ + \angle B + 80^\circ = 180^\circ$$

$$\Rightarrow \angle B = 180 - 155 = 25^\circ$$

In a circle, angle subtended by an arc at the centre is double the angle subtended by the same arc on any other point on the circle

$$\Rightarrow \angle AOC = 2 \times \angle ABC$$

$$\Rightarrow \angle AOC = 2 \times 25 = 50^\circ$$

Also, in  $\triangle AOC$ ,  $OA = OC$  (radii of circle),  $\Rightarrow \angle OAC = \angle OCA = \theta$

$$\Rightarrow \angle AOC + \angle OAC + \angle OCA = 180^\circ$$

$$\Rightarrow 50^\circ + \theta + \theta = 180^\circ$$

$$\Rightarrow 2\theta = 180 - 50 = 130^\circ$$

$$\Rightarrow \theta = \frac{130}{2} = 65^\circ$$

$\Rightarrow$  Ans - (B)

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**Question 92**

Smaller diagonal of a rhombus is equal to length of its sides. If length of each side is 4 cm, then what is the area ( $incm^2$ ) of an equilateral triangle with side equal to the bigger diagonal of the rhombus?

A 6

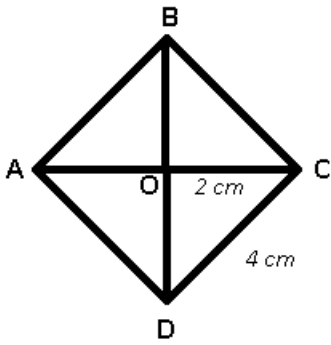
B  $9\sqrt{3}$

C 12

D  $12\sqrt{3}$

Answer: D

Explanation:



Let bigger diagonal of rhombus =  $BD = 2x$  cm and smaller diagonal =  $AC = 4$  cm

Diagonals of a rhombus bisect each other at right angle.

$\Rightarrow OC = 2$  cm and  $OD = x$  cm

In  $\triangle OCD$ ,

$$\Rightarrow (OD)^2 = (CD)^2 - (OC)^2$$

$$\Rightarrow (OD)^2 = (4)^2 - (2)^2$$

$$\Rightarrow (OD)^2 = 16 - 4 = 12$$

$$\Rightarrow OD = \sqrt{12} = 2\sqrt{3} \text{ cm}$$

Thus, side of equilateral triangle = bigger diagonal =  $2 \times 2\sqrt{3} = 4\sqrt{3}$  cm

$$\therefore \text{Area of equilateral triangle} = \frac{\sqrt{3}}{4} a^2$$

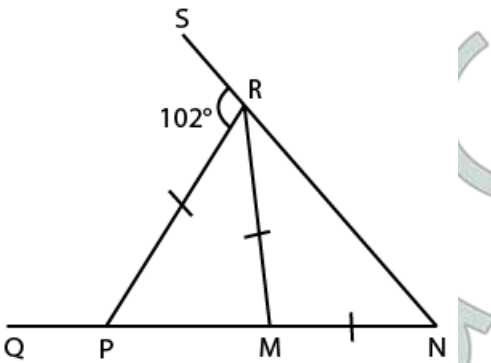
$$= \frac{\sqrt{3}}{4} \times (4\sqrt{3})^2$$

$$= \frac{\sqrt{3}}{4} \times 48 = 12\sqrt{3} \text{ cm}^2$$

$\Rightarrow$  Ans - (D)

#### Question 93

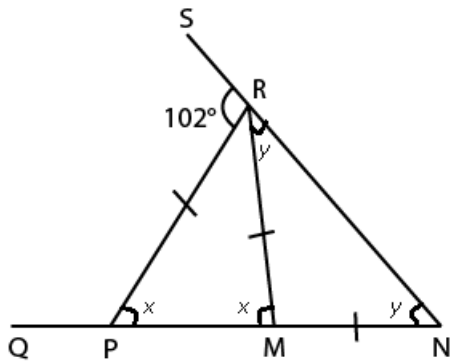
In the given figure,  $MN = RM = RP$ , then what is the value (in degrees) of  $\angle MPR$ ?



- A 47
- B 68
- C 72
- D Cannot be determined

Answer: B

Explanation:



In  $\triangle RPN$ , using exterior angle property,

$$\Rightarrow \angle PRS = \angle RPN + \angle PNR$$

$$\Rightarrow x + y = 102^\circ \text{ -----(i)}$$

Also, in  $\triangle MRN$ ,

$$\Rightarrow \angle MRN + \angle MNR + \angle RMN = 180^\circ$$

$$\Rightarrow \angle RMN = (180 - 2y)^\circ$$

At point M,  $\angle RMP + \angle RMN = 180^\circ$

$$\Rightarrow x + (180 - 2y) = 180$$

$$\Rightarrow x = 2y \text{ -----(ii)}$$

Substituting above value in equation (i),

$$\Rightarrow 2y + y = 102^\circ$$

$$\Rightarrow y = \frac{102}{3} = 34^\circ$$

Substituting it in equation (ii),  $\Rightarrow x = 2 \times 34 = 68^\circ$

$\Rightarrow$  Ans - (B)

#### Question 94

What is the simplified value of  $(\cos A + \sin A)(\cot A + \tan A)$ ?

- A  $\sec A + \operatorname{cosec} A$
- B  $\sin A + \cos A$
- C  $\tan A + \cot A$
- D  $\sec A - \operatorname{cosec} A$

**Answer: A**

#### Explanation:

Expression :  $(\cos A + \sin A)(\cot A + \tan A)$

$$= (\cos A + \sin A) \left( \frac{\cos A}{\sin A} + \frac{\sin A}{\cos A} \right)$$

$$= (\cos A + \sin A) \left( \frac{\sin^2 A + \cos^2 A}{\sin A \cos A} \right)$$

$$= \frac{\cos A + \sin A}{\sin A \cos A}$$

$$= \frac{\cos A}{\sin A \cos A} + \frac{\sin A}{\sin A \cos A}$$

$$= \frac{1}{\sin A} + \frac{1}{\cos A} = \operatorname{cosec} A + \sec A$$

$\Rightarrow$  Ans - (A)

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### Question 95

What is the simplified value of  $\sqrt{\frac{\operatorname{cosec}\theta}{\operatorname{cosec}\theta-1} + \frac{\operatorname{cosec}\theta}{\operatorname{cosec}\theta+1}}$  ?

- A  $\sqrt{2}\sec\theta$
- B  $\sqrt{2}\operatorname{cosec}\theta$
- C  $\sec^2\theta$
- D  $2\sec\theta$

**Answer:** A

**Explanation:**

$$\begin{aligned}\text{Expression: } & \sqrt{\frac{\operatorname{cosec}\theta}{\operatorname{cosec}\theta-1} + \frac{\operatorname{cosec}\theta}{\operatorname{cosec}\theta+1}} \\ &= \sqrt{\frac{\operatorname{cosec}\theta(\operatorname{cosec}\theta+1) + \operatorname{cosec}\theta(\operatorname{cosec}\theta-1)}{(\operatorname{cosec}\theta-1)(\operatorname{cosec}\theta+1)}} \\ &= \sqrt{\frac{(\operatorname{cosec}^2\theta + \operatorname{cosec}\theta) + (\operatorname{cosec}^2\theta - \operatorname{cosec}\theta)}{\operatorname{cosec}^2\theta - 1}}\end{aligned}$$

Using,  $(\operatorname{cosec}^2\theta - \cot^2\theta = 1)$

$$\begin{aligned}&= \sqrt{\frac{2\operatorname{cosec}^2\theta}{\cot^2\theta}} = \sqrt{2\operatorname{cosec}^2\theta \tan^2\theta} \\ &= \sqrt{\frac{2}{\sin^2\theta} \times \frac{\sin^2\theta}{\cos^2\theta}} \\ &= \sqrt{\frac{2}{\cos^2\theta}} = \sqrt{2\sec^2\theta}\end{aligned}$$

$$= \sqrt{2}\sec\theta$$

=> Ans - (A)

### Question 96

If  $2\cos\theta = 2 - \sin\theta$ , then what is the value of  $\cos\theta$ ?

- A 1 or 3/5
- B 1 or -1/2
- C -1 or -1/2
- D -1 or 3/5

**Answer:** A

**Explanation:**

$$\text{Given: } 2\cos\theta = 2 - \sin\theta$$

$$\Rightarrow 2\cos\theta = 2 - \sqrt{1 - \cos^2\theta}$$

$$\Rightarrow \sqrt{1 - \cos^2\theta} = 2 - 2\cos\theta$$

Squaring both sides,

$$\Rightarrow (\sqrt{1 - \cos^2\theta})^2 = (2 - 2\cos\theta)^2$$

$$\Rightarrow 1 - \cos^2\theta = 4 + 4\cos^2\theta - 8\cos\theta$$

$$\text{Let } \cos\theta = x$$

$$\Rightarrow 5x^2 - 8x + 3 = 0$$

$$\Rightarrow 5x^2 - 5x - 3x + 3 = 0$$

$$\Rightarrow 5x(x - 1) - 3(x - 1) = 0$$

$$\Rightarrow (5x - 3)(x - 1) = 0$$

$$\Rightarrow x = \cos\theta = 1, \frac{3}{5}$$

$\Rightarrow$  Ans - (A)

#### Instructions

The table given below shows the ratio of exports and imports of a country for 5 years.

**Total trade = exports + imports**

Year	Exports : Imports
Year 1	10:9
Year 2	11:7
Year 3	4:3
Year 4	5:8
Year 5	12:13

#### Question 97

If the total trade of the country in year 3 was 1183 crore dollars, then what was the difference (in crore dollars) between exports and imports of the country in that year?

- A 169
- B 173
- C 142
- D 158

**Answer:** A

#### Explanation:

Total trade of the country in year 3 = 1183 crore dollars

$\Rightarrow$  Difference (in crore dollars) between exports and imports of the country in year 3

$$= \frac{(4-3)}{(4+3)} \times 1183$$

$$= \frac{1183}{7} = 169$$

$\Rightarrow$  Ans - (A)

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#### Question 98

The total trade for Year 2 and Year 4 is same. If exports of Year 4 are 315 crore dollars, then what are the imports (in crore dollars) of Year 2?

- A 306.4
- B 309.8



C 323.7

D 318.5

Answer: D

**Explanation:**

Let trade of year 4 =  $13x$

$$\Rightarrow \text{Exports of year 4} = \frac{5}{(5+8)} \times 13x = 5x$$

According to ques,  $\Rightarrow 5x = 315$

$$\Rightarrow x = \frac{315}{5} = 63$$

Also, trade of year 2 = trade of year 4 =  $13 \times 63 = 819$

$$\therefore \text{Imports of year 2} = \frac{7}{(11+7)} \times 819$$

$$= \frac{7}{2} \times 91 = 318.5$$

$\Rightarrow$  Ans - (D)

**Question 99**

Total trade of Year 1 is twice of the total trade of Year 5. If total trade of Year 1 is 5700 crore dollars, then what is the difference (in crore dollars) in exports of Year 1 and Year 5?

A 1835

B 1632

C 1368

D 1423

Answer: B

**Explanation:**

Trade of year 1 = 5700

$$\Rightarrow \text{Exports of year 1} = \frac{10}{(10+9)} \times 5700 = 3000$$

Also, trade of Year 1 is twice of the total trade of Year 5

$$\Rightarrow \text{Trade of year 5} = \frac{5700}{2} = 2850$$

$$\Rightarrow \text{Exports of year 5} = \frac{12}{(12+13)} \times 2850$$

$$= 12 \times 114 = 1368$$

$$\therefore \text{Required difference} = 3000 - 1368 = 1632$$

$\Rightarrow$  Ans - (B)

**Question 100**

The total trade of 5 years is 3800, 3600, 2800, 3900 and 5000 crore dollars respectively. What is the difference (in crore dollars) in the average exports and average imports respectively?

A 60

B -60

C -90

D 120

**Answer: A**

**Explanation:**

Difference between export and import in each year respectively (in crore dollars) :

$$\text{Year 1 : } \frac{(10-9)}{(10+9)} \times 3800 = 200$$

$$\text{Year 2 : } \frac{(11-7)}{(11+7)} \times 3600 = 800$$

$$\text{Year 3 : } \frac{(4-3)}{(4+3)} \times 2800 = 400$$

$$\text{Year 4 : } \frac{(5-8)}{(5+8)} \times 3900 = -900$$

$$\text{Year 5 : } \frac{(12-13)}{(12+13)} \times 5000 = -200$$

$$\Rightarrow \text{Required average} = \frac{(200+800+400-900-200)}{5}$$

$$= \frac{300}{5} = 60$$

$\Rightarrow$  Ans - (A)

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