



2017 SSC CGL 19 Aug Shift-3

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Reasoning

Instructions

For the following questions answer them individually

Question 1

Select the related word from the given alternatives.

Night : Stars :: Day : ?

- A Sun
- B Blue
- C Work
- D Planet

Answer: A

Explanation:

Expression : Night : Stars :: Day : ?

Star appear in the night in the same way as the sun appear in the day.

=> Ans - (A)

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Question 2

Select the related letters from the given alternatives.

BEH : KNQ :: FIL : ?

- A ONM
- B NLJ
- C ORU
- D OMK

Answer: C

Explanation:

BEH : KNQ

The pattern followed is :

B	E	H
(+9)	(+9)	(+9)
K	N	Q

Similarly, for FIL :

F	I	L
(+9)	(+9)	(+9)
O	R	U

=> Ans - (C)

Question 3

Select the related number from the given alternatives.

6 : -3 :: -18 : ?

- A 3
- B 9
- C -9
- D -6

Answer: B

Explanation:

Expression : 6 : -3 :: -18 : ?

The pattern is = $n : \frac{n}{-2}$

Eg = $6 : \frac{6}{-2} = 6 : -3$

Similarly, $\frac{-18}{-2} = 9$

=> Ans - (B)

Question 4

Select the odd word from the given alternatives.

- A Cyan
- B Crimson
- C Indigo
- D Sky blue

Answer: B

Explanation:

Cyan, Indigo and sky blue are shades of blue color while Crimson is a shade of red colour.

=> Ans - (B)

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Question 5

Select the odd letters from the given alternatives.

- A JPV
- B UIO
- C KQW
- D LRX

Answer: B

Explanation:

(A) : J (+6 letters) = P (+6 letters) = V

(B) : U (-12 letters) = I (+6 letters) = O

(C) : K (+6 letters) = Q (+6 letters) = W

(D) : L (+6 letters) = R (+6 letters) = X

=> Ans - (B)

Question 6

Select the odd number from the given alternatives.

A 8

B 27

C 100

D 125

Answer: C

Explanation:

$$8 = 2^3$$

$$27 = 3^3$$

$$125 = 5^3$$

100 is not a perfect cube, hence it is the odd one out.

=> Ans - (C)

Question 7

A series is given, with one word missing. Choose the correct alternative from the given ones that will complete the series.
employ, oyster, error, ornate, tennis, ?

A neptune

B nature

C terminate

D isomer

Answer: D

Explanation:

Expression : employ, oyster, error, ornate, tennis, ?

The pattern followed is that the next word is formed from the last two letters of the previous word.

Eg : employ -> oyster -> error -> ornate -> tennis

Thus, the next word will start with 'is' and among the options, next term = isomer

=> Ans - (D)

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Question 8

A series is given, with one term missing. Choose the correct alternative from the given ones that will complete the series.
XXXXXO, XXXXOX, XXXOXX, XXOXXX, XOXXXX, ?

A OXXXXX

- B OXXXXO
- C OXXXOX
- D XXXXXX

Answer: A

Explanation:

Expression : XXXXXO, XXXXOX, XXXOXX, XXOXXX, XOXXXX, ?

The position of 'O' is shifted one place to the left.

=> Missing term = OXXXXX

=> Ans - (A)

Question 9

A series is given, with one number missing. Choose the correct alternative from the given ones that will complete the series.

-7/4, -1, -0.25, ?, 5/4, 2

- A 0.5
- B 0.75
- C 0.25
- D 1

Answer: A

Explanation:

The pattern followed is that the $\frac{3}{4} = 0.75$ is added to each number.

$$-1.75 + 0.75 = -1$$

$$-1 + 0.75 = -0.25$$

$$-0.25 + 0.75 = \mathbf{0.5}$$

$$0.5 + 0.75 = 1.25$$

$$1.25 + 0.75 = 2$$

=> Ans - (A)

Question 10

Dhruv's birthday is on Sunday 28th May. On what day of the week will be Sahil's Birthday in the same year if Sahil was born on 19th October?

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

Answer: C

Explanation:

According to the question, 28th May is Sunday

$$\text{Number of days left in May} = 31 - 28 = 3$$

$$\text{Similarly, odd days from 28th May till 19th October} = (3 + 30 + 31 + 31 + 30 + 19)\%7$$

$$= 3 + 2 + 3 + 3 + 2 + 5 = 18$$

Now, dividing 18 by 7, remainder = 4

Thus, day on 19th October = Sunday (+4) = Thursday

=> Ans - (C)

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Question 11

The weights of 4 boxes are 30, 20, 60 and 70 kilograms. Which of the following cannot be the total weight, in kilograms, of any combination of these boxes and in a combination a box can be used only once?

- A 180
- B 150
- C 120
- D 170

Answer: D

Explanation:

Weight of the boxes = 30, 20, 60 and 70 kilograms

$$(A) : 180 = 30 + 20 + 60 + 70 = 180$$

$$(B) : 150 = 20 + 60 + 70 = 150$$

$$(C) : 120 = 30 + 20 + 70 = 120$$

$$(D) : 170 = \text{not possible}$$

=> Ans - (D)

Question 12

From the given words, select the word which cannot be formed using the letters of the given word.

PROXIMAL

- A MOLAR
- B AXIOM
- C REALM
- D APRIL

Answer: C

Explanation:

The word PROXIMAL does not contain any 'E' and thus the word 'Realm' cannot be formed.

=> Ans - (C)

Question 13

If PONDERS is coded as ONMCDQR, then how will MAT be coded as?

- A LZS
- B OLJ

C AEG

D LDZ

Answer: A

Explanation:

PONDERS is coded as ONMCDQR

The pattern followed is :

P	O	N	D	E	R	S
(-1)	(-1)	(-1)	(-1)	(-1)	(-1)	(-1)
O	N	M	C	D	Q	R

Similarly, for MAT :

M	A	T
(-1)	(-1)	(-1)
L	Z	S

=> Ans - (A)

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Question 14

In a certain code language, '+' represents 'x', '-' represents '+', 'x' represents '÷' and '÷' represents '-'. What is the answer to the following question?

$$80 \times 16 \div 4 + 2 - 8 = ?$$

A 11

B 64

C 30

D 5

Answer: D

Explanation:

$$\text{Expression} = 80 \times 16 \div 4 + 2 - 8 = ?$$

$$\equiv 80 \div 16 - 4 \times 2 + 8$$

$$= 5 - 8 + 8 = 5$$

=> Ans - (D)

Question 15

If $35 \% 31 = 12$, $92 \% 30 = 14$ then what is the value of $15 \% 24 = ?$

A 12

B 25

C 33

D 28

Answer: A

Explanation:

The pattern followed is that all the digits in the numbers are added.

Eg : $35 \% 31 = 3 + 5 + 3 + 1 = 12$

and $92 \% 30 = 9 + 2 + 3 + 0 = 14$

Similarly, $15 \% 24 = 1 + 5 + 2 + 4 = 12$

=> Ans - (A)

Question 16

Select the missing number from the given responses

111	314	205
34	39	102
?	275	103

A 172

B 75

C 77

D 170

Answer: C

Explanation:

In the first column, the number at the top is obtained by adding the other two.

Eg = $39 + 275 = 314$

and $102 + 103 = 205$

Similarly, $34 + x = 111$

=> $x = 111 - 34 = 77$

=> Ans - (C)

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Question 17

X and Y both start from a same point. X walks 17 m West, then turns to his right and walks 13 m. At the same time, Y walks 9 m North, then turns East and walks 7 m, then turns to his left and walks 4 m. Where is Y now with respect to the position of X?

A 24 m West

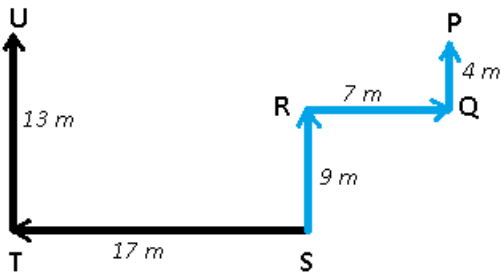
B 10 m East

C 10 m West

D 24 m East

Answer: D

Explanation:



Let both X and Y start from point S. X's path is shown by black and Y's by blue.

X travels 17 m west and reaches T, then takes right turn and reaches point U by travelling 13 m.

Similarly, Y travels north for 9 m and reaches R, then turns east for 7 m and finally stops at point P.

Thus, $UP = 17 + 7 = 24$ km

\therefore Y is 24 m to the east of X.

=> Ans - (D)

Question 18

In the question a statement is given, followed by two arguments, I and II. You have to consider the statement to be true even if it seems to be at variance from commonly known facts. You have to decide which of the given arguments, if any, is a strong argument.

Statement : Should songs be eliminated from Indian movies.

Argument I : Yes, Hollywood movies are hit despite having no songs.

Argument II : No, songs help increase length of the movie.

- A if only argument I is strong.
- B if only argument II is strong.
- C if both I and II are strong.
- D if neither I nor II is strong.

Answer: D

Explanation:

if Hollywood movies are hit without songs, then it does not mean that eliminating songs from Bollywood movies will result in a hit.

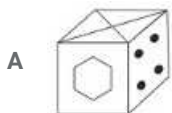
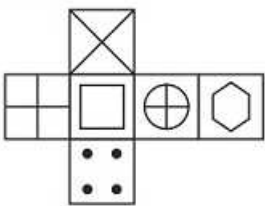
Also, the length of a movie does not decide the success of a movie, thus second argument is also weak.

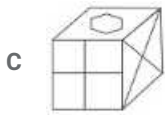
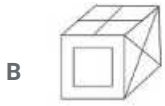
Thus, neither I nor II is strong.

=> Ans - (D)

Question 19

Which of the following cube in the answer figure cannot be made based on the unfolded cube in the question figure?

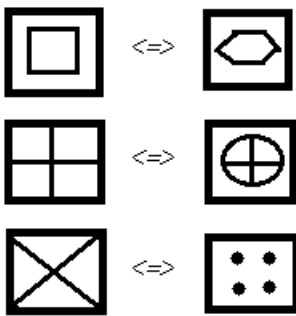




Answer: A

Explanation:

When we fold the given figure, the side with a 'square' sign will become the base of the cube and the side with only 'hexagon' sign will become top, and thus they will face each other. Similarly, the sides which will face each other will be :



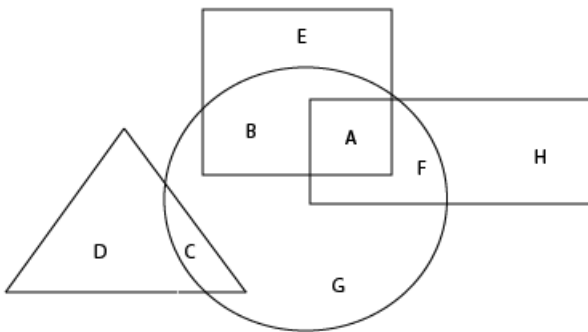
Since, the opposite sides cannot be adjacent in the cube, thus the cube in the first option is not possible.

=> Ans - (A)

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Question 20

In the following figure, square represents Pharmacists, triangle represents singers, circle represents Surgeons and rectangle represents Mothers. Which set of letters represents surgeons who are either mothers or singers?



- A E,D,G
- B A,F,C
- C A,D,C
- D H,B,C

Answer: B

Explanation:

Surgeons are represented by = $A+B+C+F+G$

Mothers = $A+F+H$

Singers = $C+D$

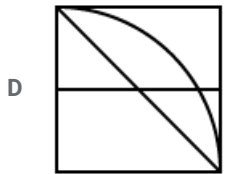
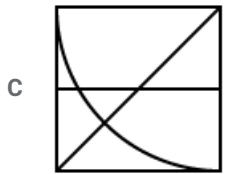
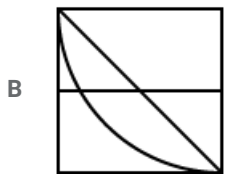
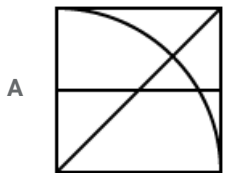
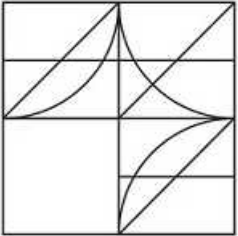
Now, surgeons who are either mothers or singers = $\text{Surgeons} \cap (\text{mothers} \cup \text{singers})$

= A,F,C

=> Ans - (B)

Question 21

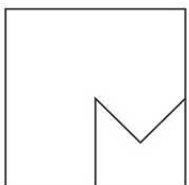
Which answer figure will complete the pattern in the question figure

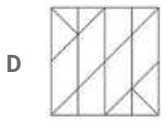
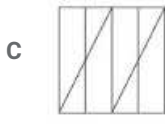
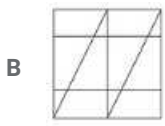
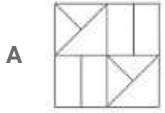


Answer: A

Question 22

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





Answer: A

Explanation:

The question figure is embedded in the following figure :

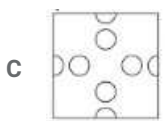
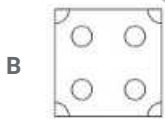
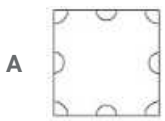
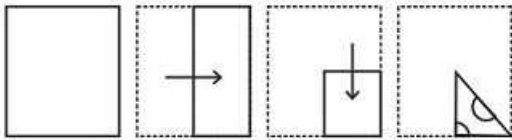


=> Ans - (A)

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Question 23

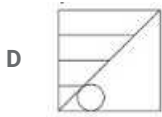
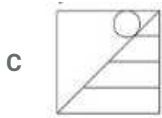
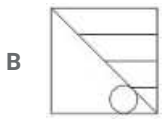
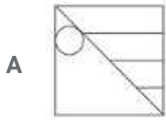
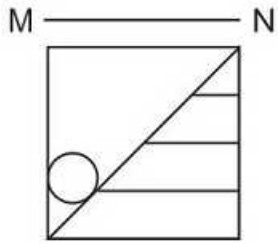
A piece of paper is folded and punched as shown below in the question figures. From the given answer figures, indicate how it will appear when opened.



Answer: D

Question 24

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



Answer: A

Explanation:

A horizontal mirror is placed, so the objects will turn upside down in the mirror image (eg - an object at top right will appear at bottom right). So, the right diagonal will appear as left diagonal in the mirror image, and thus last two options are eliminated.

Also, the circle at bottom left will appear at top left, so the second option is not possible.

=> Ans - (A)

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 'K' can be represented by 42, 34 etc and T can be represented by 76, 88 etc. Similarly, you have to identify the set for the word 'RIDE'.

Matrix - I

	0	1	2	3	4
0	G	K	H	A	M
1	D	C	F	E	G
2	J	G	L	D	J
3	I	H	A	E	K
4	B	C	K	E	G

Matrix - II

	5	6	7	8	9
5	U	O	Y	V	O
6	T	V	Q	O	T
7	V	Z	P	S	W
8	O	Y	P	Z	R
9	O	V	V	V	Z

A 30,23,85,66

B 89,30,10,13

C 10,24,68,78

D 10,11,88,86

Answer: B

Explanation:

(A) : 30,23,85,66 = IDOV

(B) : 89,30,10,13 = **RIDE**

(C) : 10,24,68,78 = DJOS

(D) : 10,11,88,86 = DCZY

=> Ans - (B)

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General Awareness

Instructions

For the following questions answer them individually

Question 26

A _____ deficit is financed by net capital flows from the rest of the world, thus by a capital account surplus.

- A Current Account
- B Savings Account
- C Capital Account
- D Asset Account

Answer: A

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Question 27

_____ is defined as the output per unit of variable input

- A Marginal product
- B Production function
- C Total product
- D Average product

Answer: D

Question 28

"Taxes on lands and buildings" is listed in the _____ list given in the Seventh Schedule in the Constitution of India.

- A Union
- B State
- C Global
- D Concurrent

Answer: B

Question 29

There are total _____ parliamentary seats (Rajya Sabha constituency) in Maharashtra.

- A 11
- B 19
- C 10
- D 1

Answer: B

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Question 30

Akbar was _____ years old when he became emperor.

- A 16
- B 19
- C 13
- D 10

Answer: C

Question 31

Sultan Mahmud was a ruler of_____.

- A Persia
- B Ghazni
- C Lahore
- D Arab

Answer: B

Question 32

As the river enters the plain it twists and turns forming large bends known as _____.

- A crooks
- B flections
- C rounds
- D meanders

Answer: D

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Question 33

The method of soil conservation in which stones, grass, soil are used to build barriers along contours and trenches are made in front of the barriers to collect water is called?

- A Mulching
- B Contour barriers
- C Rock dam
- D Terrace farming

Answer: B

Question 34

In male reproductive system, the testes are situated outside the abdominal cavity within a pouch called _____.

- A Glands
- B Scrotum
- C Testicular Lobules
- D Seminiferous Tubules

Answer: B

Question 35

Which of the following is not among the 3 main classes of Algae?

- A Chlorophyceae
- B Rhodophyceae
- C Phaeophyceae
- D Gymnosperms

Answer: D

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Question 36

Sycon (Scypha), Spongilla (Fresh water sponge) and Euspongia (Bath sponge) are examples of which Phylum?

- A Coelenterata
- B Platyhelminthes
- C Ctenophora
- D Porifera

Answer: D

Question 37

If the force applied on the object is in the direction opposite to the direction of motion, the speed of the object _____.

- A increases
- B stops
- C decreases
- D no effect

Answer: C

Question 38

The SI unit of acceleration is _____

- A meters per seconds squared
- B meters per second
- C seconds per meter
- D seconds per meter squared

Answer: A

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Question 39

In Microsoft Excel, the _____() function returns the smallest value among the values passed as arguments.

- A LEAST
- B LESS
- C MIN
- D LOW

Answer: C

Question 40

Fire extinguishers emit which gas?

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

Answer: C

Question 41

What is formed when Magnesium is burnt?

- A Baking Soda
- B Calcium Carbonate

- C Ash
- D Vinegar

Answer: C

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Question 42

The salt concentration (measured as salinity in parts per thousand), is less than _____ % in inland waters.

- A 5
- B 20
- C 50
- D 75

Answer: A

Question 43

_____ scheme launched by the Central Government aims to improve rural livelihoods and promote rural development and strengthen the Panchayati Raj across the country.

- A Pradhan Mantri Fasal Bima Yojana
- B Gram Uday Se Bharat Uday Abhiyan
- C Stand up India scheme
- D National RU URBAN Mission

Answer: B

Question 44

Who discovered Photon?

- A George Crum
- B Albert Einstein
- C Henry Cavendish
- D Humphry Davy

Answer: B

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Question 45

Who is the winner of 2016-17 Premier League (Football)?

- A Leicester City
- B Manchester City

- C Chelsea
- D Manchester United

Answer: C

Question 46

Gol Gumbaz was designed by?

- A Ustad Ahmad of Lahouri
- B George Wittet
- C Henry Irwin
- D Yaqut of Dabul

Answer: D

Question 47

Which of the following was the winner of the Grammy Awards 2016 "Country Song of the Year"?

- A Chances Are
- B Girl Crush
- C Hold My Hand
- D Traveller

Answer: B

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Question 48

- A] The author of the novel 'Bird Box' is Victor LaValle.
- B] The author of the novel 'The Devil in Silver' is Josh Malerman.
- C] The author of the novel 'Fellside' is Victor LaValle.

Which of the statements given above are not correct?

- A A and B
- B B and C
- C A and C
- D A, B and C

Answer: D

Question 49

In April 2017, to address growing unemployment, which country has abolished the 457 Visa Programme used by thousands of temporary foreign workers, a majority of them Indians?

- A USA

- B Canada
- C Australia
- D UK

Answer: C

Question 50

SAARC Agriculture Centre (SAC) is based in which city?

- A Islamabad
- B Dhaka
- C Colombo
- D Kathmandu

Answer: B

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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'.

He was such a (a:/ wonderful person (b:/ into so many ways. (c:/No Error (d:

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

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'.

The magician placed the ball (a:/ underneath of his hat and (b:/ made a mystic sign above it. (c:/No Error (d:

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

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.

Our nation's _____ into another country's war could pull us into the crisis.

- A intervention
- B intention
- C perfection
- D invention

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.

As a fitness _____, Deepti is always preaching to her friends about the importance of working out.

- A enthusiasm
- B enthusiast
- C enthusiastic
- D enthusiastically

Answer: B

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Question 55

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

Phonetic

- A Mute
- B Reticent
- C Silent
- D Spoken

Answer: D

Question 56

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

To Astound

- A To Bewilder
- B To Tranquil

C To Placid

D To Serene

Answer: A

Question 57

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

Disdain

A Antipathy

B Admiration

C Derision

D Scorn

Answer: B

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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.

Canonical

A Approved

B Official

C Sanctioned

D Unorthodox

Answer: D

Question 59

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

It goes without saying

A To Silently bear the injustice

B Something which is implied to be obvious

C There is no point in doing something after you are told to do it

D Break long relationship with someone

Answer: B

Question 60

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

To let someone off

A To let someone fall

- B To leave someone in his present state
- C To release someone from blame
- D To refuse to answer

Answer: B

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Question 61

In the following question, out of the four alternatives, select the alternative which will improve the bracketed part of the sentence. In case no improvement is needed, select "no improvement".

May be they (has had) a fight.

- A were had
- B was having
- C were having
- D no improvement

Answer: C

Question 62

In the following question, out of the four alternatives, select the alternative which will improve the bracketed part of the sentence. In case no improvement is needed, select "no improvement".

We wouldn't want them to think we (doing) anything immoral.

- A was doing
- B were doing
- C done
- D no improvement

Answer: B

Question 63

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

Excessively lengthy speech

- A Concision
- B Verbiage
- C Curt
- D Succinct

Answer: B

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Question 64

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

An ornamented staff carried by rulers on ceremonial occasions as a symbol of sovereignty

- A Spectacle
- B Receptacle
- C Sceptre
- D Zephyr

Answer: C

Question 65

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

- A Contusion
- B Contution
- C Cuntusion
- D Cuntution

Answer: A

Question 66

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

- A Scemitaras
- B Scimitars
- C Scimetars
- D Scemetars

Answer: B

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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.

Three times this was

X-only be compared to the deepest notes of thunder

Y-shook with the noise, that can

Z-repeated, and each time the earth

- A ZXY
- B YZX
- C ZYX

D YXZ

Answer: C

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.

The causes and their

X-in the same series

Y-one order, they stand

Z-effects belong to the

A ZXY

B YZX

C YXZ

D ZYX

Answer: D

Question 69

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

Sunita will bake two dozen cupcakes for the bake sale.

A For the bake sale, two dozen cookies will be baked by Sunita.

B For the bake sale, two dozen cookies is baked by Sunita.

C Baking of two dozen cookies by Sunita will be done for the bake sale.

D Baking of two dozen cookies by Sunita is done for the bake sale.

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.

My mother said to my father, "I am very busy now."

A My mother told my father that I am very busy now.

B My mother told my father that she is very busy then.

C My mother told my father that she was very busy then.

D My mother told my father that I was very busy now.

Answer: C

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.

This was enough ____ (1) ____ the book store-owner-turned librarian Husain to assess its valuable contents. "The preface of the book read: 'painters ____ (2) ____ technical knowledge to paint, but lack to understand nature, ____ (3) ____ they fail to create a masterpiece'" points out Husain, adding, "All I ____ (4) ____ in my life is about books and from books. The grand library ____ (5) ____ the palace is a cache of knowledge."

Question 71

(1)

- A for
- B of
- C to
- D from

Answer: A

Question 72

(2)

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

Answer: C

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Question 73

(3)

- A if
- B that
- C hence
- D this

Answer: C

Question 74

(4)

- A learning
- B learned
- C to learn
- D learns

Answer: B

Question 75

(5)

A from

B at

C to

D off

Answer: B

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Mathematics

Instructions

For the following questions answer them individually

Question 76

What least number must be subtracted from 3401, so that the number is completely divisible by 11?

A 3

B 1

C 2

D 0

Answer: C

Explanation:

$3401/11 = 309 \frac{2}{11}$ so 2 must be subtracted from 3401

So the answer is option C.

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Question 77

M is thrice as good as workman as N and together they finish a piece of work in 30 days. In how many days will M alone finish the work?

A 50

B 40

C 60

D 45

Answer: B

Explanation:

Let N's efficiency = 1 unit/day

M's efficiency would be = 3units/day

In 1 day they can do 4units of work

In 30days then can do $30 \times 4 = 120$ units of work

M alone finish the work in $120/3$ days = 40days

So the answer is option B.

Question 78

What is the area (in sq cm) of a regular hexagon of side 14 cm?

A $147\sqrt{3}$

B $441\sqrt{3}$

C $196\sqrt{3}$

D $294\sqrt{3}$

Answer: D

Explanation:

Area of a Regular Hexagon = $(3\sqrt{3}/2)s^2 = (3\sqrt{3}/2)(14)^2 = 294\sqrt{3}$

So the answer is option D.

Question 79

If 2 T-shirts are offered free on purchase of 3 T-shirts, what is the effective discount (in %) on each T-shirt?

A 40

B 20

C 30

D 50

Answer: A

Explanation:

Let cost price of 1 T-shirt = Rs. x

Cost price of 5 T-shirts = $5 \times x = Rs.5x$

If 2 T-shirts are offered free on purchase of 3 T-shirts, => Cost of 3 T-shirts = $3 \times x = Rs.3x$

=> Effective discount = $\frac{5x-3x}{5x} \times 100$

= $\frac{200}{5} = 40\%$

=> Ans - (A)

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Question 80

The ratio of present ages of R and S is 11:17. Before 11 years the ratio of their ages was 11:20. What is R's present age (in years)?

A 51

B 33

C 22

D 40

Answer: B

Explanation:

Let present ages of R and S be $11x$ and $17x$ respectively

According to ques,

$$\Rightarrow \frac{11x-11}{17x-11} = \frac{11}{20}$$

$$\Rightarrow \frac{x-1}{17x-11} = \frac{1}{20}$$

$$\Rightarrow 20x - 20 = 17x - 11$$

$$\Rightarrow 20x - 17x = 20 - 11$$

$$\Rightarrow 3x = 9$$

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

\therefore R's present age = $11 \times 3 = 33$ years

\Rightarrow Ans - (B)

Question 81

The average marks of 40 students in an examination was 25. It was later found that the marks of one student had been wrongly entered as 73 instead of 37. What is the value of correct average?

A 24.3

B 24.1

C 24.5

D 24.7

Answer: B

Explanation:

Avg marks of 40 students = 25

total marks = $25 \times 40 = 1000$

But the marks of one student had been wrongly entered as 73 instead of 37

now, total marks = $1000 - 73 + 37 = 964$

new average = $964 / 40 = 24.1$

So the answer is option B.

Question 82

A wholesaler sells a jacket to a retailer at a profit of 5% and the retailer sells it to a customer at a profit of 10%. If the customer pays Rs. 4158, what had it cost (in Rs) to the wholesaler?

A 3500

B 3400

C 3300

D 3600

Answer: D

Explanation:

$$\frac{110}{100} \times \frac{105}{100} \times CP = 4158$$

$$\frac{11550}{10000} \times CP = 4158$$

$$CP = 3600$$

So the answer is option D.

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Question 83

A number is increased by 84, it becomes 107% of itself. What is the number?

- A 600
- B 900
- C 1500
- D 1200

Answer: D

Explanation:

84 = 7% of that number

1% = 12

100% = 1200

So the answer is option D.

Question 84

If a boat goes a certain distance at 30 km/hr and comes back the same distance at 60 km/hr. What is the average speed (in km/hr) for the total journey?

- A 45
- B 50
- C 40
- D 35

Answer: C

Explanation:

$$\text{average speed} = \frac{2ab}{a+b} = \frac{2(30)(60)}{30+60} = 40$$

So the answer is option C.

Question 85

An amount fetched a total simple interest of Rs. 3200 at the rate of 6.25%/yr in 4 years. What is the amount (in Rs)?

- A 13800
- B 11800
- C 12800
- D 14800

Answer: C

Explanation:

$$I = \frac{PTR}{100}$$

$$3200 = \frac{P \cdot 4 \cdot 6.25}{100}$$

$$3200 = \frac{25 \cdot P}{100}$$

$$P = 12800$$

So the answer is option C.

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Question 86

If $x/2 - [4(15/2 - x/3)]/3 = -x/18$, then what is the value of x ?

A -10

B 9/8

C 10

D -9/8

Answer: C

Explanation:

$$x/2 - [4(15/2 - x/3)]/3 = -x/18$$

$$x/2 - [30 - 4x/3]/3 = -x/18$$

$$x/2 - 10 + 4x/9 = -x/18$$

$$x/2 + 4x/9 + x/18 = 10$$

$$(9x + 8x + x)/18 = 10$$

$$x = 10$$

So the answer is option C.

Question 87

If $a^3 + b^3 = 152$ and $a + b = 8$, then what is the value of ab ?

A 2

B 11

C -10

D 15

Answer: D

Explanation:

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

$$152 = (8)^3 - 3ab(8)$$

$$152 = 512 - 24ab$$

$$24ab = 360$$

$$ab = 15$$

So the answer is option D.

Question 88

A fraction is greater than its reciprocal by $9/20$. What is the fraction?

- A $5/4$
- B $4/5$
- C $3/4$
- D $4/3$

Answer: A

Explanation:

Let that fraction be $\frac{1}{x}$

$$\left(\frac{1}{x}\right) = x + 9/20$$

$$\Rightarrow 20x^2 + 9x - 20 = 0$$

$$\Rightarrow \left(x + \frac{25}{20}\right)\left(x - \frac{16}{20}\right) = 0$$

$$\Rightarrow \left(x + 5/4\right)\left(x - 4/5\right) = 0$$

$$\Rightarrow x = -5/4 \text{ or } 4/5$$

$$\Rightarrow \text{fraction} = \frac{1}{x} = -4/5 \text{ (or) } 5/4$$

so the answer is option A.

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Question 89

What is the sum of the first 9 terms of an arithmetic progression if the first term is 7 and last term is 55?

- A 219
- B 137
- C 231
- D 279

Answer: D

Explanation:

$$S_n = \frac{n}{2}(a + l)$$

$$S_9 = \frac{9}{2}(7 + 55) = 279$$

So the answer is option D.

Question 90

What is the reflection of the point (5, -2) in the line $x = -1$?

- A (-7, -2)
- B (5, 0)
- C (7, -2)

D (5, 2)

Answer: A

Explanation:

(diagram)

from the diagram answer is (-7, -2)

So the answer is option A.

Question 91

Point A divides segment BC in the ratio 4:1. Co-ordinates of B are (6, 1) and C are (7/2, 6). What are the co-ordinates of point A?

A (4, 3)

B (4, 5)

C (2, 5)

D (3, 5)

Answer: B

Explanation:

$$(x, y) = \left(\frac{mx_2 + nx_1}{m+n}, \frac{my_2 + ny_1}{m+n} \right)$$

$$(x, y) = \left(\frac{4(7/2) + 1(6)}{4+1}, \frac{4(6) + 1(1)}{4+1} \right)$$

$$(x, y) = (4, 5)$$

So the answer is option B.

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Question 92

What is the slope of the line parallel to the line passing through the points (5, -1) and (4, -4)?

A -3

B -1/3

C 3

D 1/3

Answer: C

Explanation:

$$\text{slope } m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{-4 - (-1)}{4 - 5} = 3$$

slope of the parallel line = m = 3.

So the answer is option C.

Question 93

ΔXYZ is similar to ΔPQR . If ratio of Perimeter of ΔXYZ and Perimeter of ΔPQR is 16:9 and PQ = 3.6 cm, then what is the length(in cm) of XY?

A 4.8

B 3.2

C 6.4

D 8.6

Answer: C

Explanation:

For similar triangles, ratio of perimeters = ratio of corresponding sides

$$XY/PQ = 16/9$$

$$XY/3.6 = 16/9$$

$$XY = 6.4$$

So the answer is option C.

Question 94

What is the value of $(1/2) \sec 30^\circ + \sqrt{2} \tan 60^\circ$?

A $(1 + 3\sqrt{2})/\sqrt{3}$

B $(\sqrt{3} + 2)/\sqrt{3}$

C $\sqrt{3} + 2$

D $(\sqrt{3} + 2)/2$

Answer: A

Explanation:

$$(1/2) \sec 30^\circ + \sqrt{2} \tan 60^\circ$$

$$= (1/2) (2/\sqrt{3}) + \sqrt{2} (\sqrt{3})$$

$$= 1/\sqrt{3} + \sqrt{6}$$

$$= (1 + 3\sqrt{2})/\sqrt{3}$$

So the answer is option A.

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Question 95

ΔDEF is right angled at E. If $m\angle D = 45^\circ$, then what is the value of $\operatorname{cosec} F \times \cot D$?

A $1/\sqrt{2}$

B 2

C $1/2$

D $\sqrt{2}$

Answer: D

Explanation:

$$E = 90^\circ \quad D = 45^\circ$$

$$\text{then } F = 45^\circ (\because D + E + F = 180^\circ)$$

$$\operatorname{cosec} F \times \cot D = \operatorname{cosec} 45^\circ \times \cot 45^\circ = \sqrt{2} \times 1 = \sqrt{2}$$

So the answer is option D.

Question 96

If $\sec \theta = 25/24$, then what is the value of $\sin \theta$?

- A 24/25
- B 7/25
- C 24/7
- D 25/7

Answer: B

Explanation:

$$\sec \theta = 25/24$$

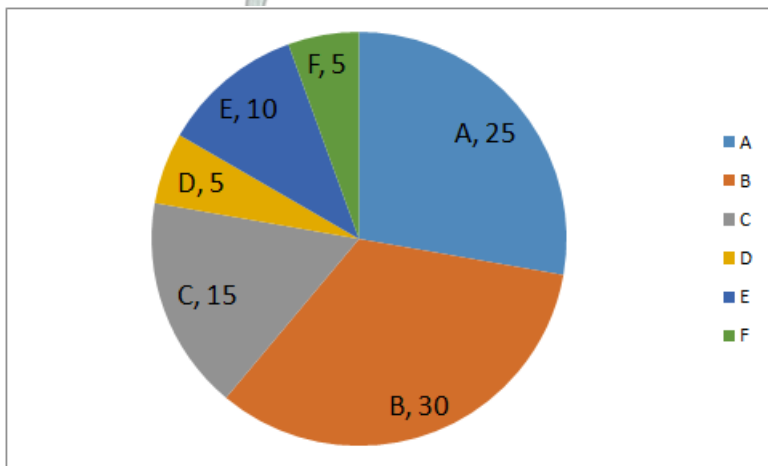
$$\cos \theta = 24/25$$

$$\sin \theta = 1 - \cos^2 \theta = 1 - (24/25)^2 = 7/25$$

So the answer is option B.

Instructions

Students from different countries (A, B, C, D, E, F) participated in a certain seminar. The pie chart shows how many students came from each of the six participating countries. Study the diagram and answer the following questions.



Question 97

The biggest contingent of students was from which country?

- A A
- B C
- C B
- D D

Answer: C

Explanation:

B with 30 is the biggest contingent

So the answer is option C.

Question 98

What is the angular measure (in degrees) of the sector representing Country A?

- A 100
- B 25
- C 50
- D 120

Answer: A

Explanation:

the angular measure (in degrees) of the sector representing Country A = $\frac{25}{90} \times 360 = 100^\circ$

So the answer is option A.

Question 99

By what count (in %) students from Country B at the seminar were more than the students from Country E?

- A 40
- B 200
- C 20
- D 18

Answer: B

Explanation:

Students in B = 30

Students in E = 10

B is more than E by $\frac{30-10}{10} \times 100 = 200$

So the answer is option B.

Question 100

If the cost of total spending on transport for the seminar was Rs 9 lakhs and the cost of hosting the students was Rs 150000 per country then what was the ratio of hosting cost of all the students to that of spending on transport?

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

Answer: C

Explanation:

cost of hosting per student = 150000

cost of hosting for 6 students = $150000 \times 6 = 900000$

cost of total spending on transport for the seminar was Rs 9 lakhs

ratio = $900000 : 900000 = 1 : 1$

So the answer is option C.

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