



2017 SSC CGL 19 Aug Shift-2

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Reasoning

Instructions

For the following questions answer them individually

Question 1

Select the related word from the given alternatives.

Swim : Water :: Fly : ?

- A Bird
- B Air
- C Wings
- D Plane

Answer: B

Explanation:

We can swim in the water, the same way we can fly in the air.

=> Ans - (B)

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Question 2

Select the related letters from the given alternatives.

GIK : PRT :: DFH : ?

- A LNP
- B MOQ
- C RPN
- D JLN

Answer: B

Explanation:

Expression = GIK : PRT

The pattern followed is :

G	I	K
(+9)	(+9)	(+9)
P	R	T

Similarly, for DFH :

D	F	H
(+9)	(+9)	(+9)
M	O	Q

=> Ans - (B)

Question 3

Select the related number from the given alternatives.

55 : 11 :: 125 : ?

- A 22
- B 5
- C 25
- D 101

Answer: C

Explanation:

Expression : $55 : 11 :: 125 : ?$

The pattern followed is $n : \frac{n}{5}$

Eg = $55 : \frac{55}{5} = 55 : 11$

Similarly, $\frac{125}{5} = 25$

=> Ans - (C)

Question 4

Select the odd word from the given alternatives.

- A Football
- B Basketball
- C Cricket ball
- D Volleyball

Answer: C

Explanation:

The size of balls used in Football, Basketball and Volleyball is very big as compared to the size of balls used in cricket.

=> Ans - (C)

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Question 5

Select the odd letters from the given alternatives.

- A USQ
- B OMK
- C IGE
- D VUT

Answer: D

Explanation:

(A) : U (-2 letters) = S (-2 letters) = Q

(B) : O (-2 letters) = M (-2 letters) = K

(C) : I (-2 letters) = G (-2 letters) = E

(D) : V (-1 letters) = U (-1 letters) = T

=> Ans - (D)

Question 6

Select the odd number from the given alternatives.

- A 110
- B 140
- C 154
- D 143

Answer: B

Explanation:

All the numbers except 140 are divisible by 11, hence it is the odd one.

=> Ans - (B)

Question 7

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

cry, dome, super, random, ?

- A reflex
- B done
- C formula
- D classify

Answer: C

Explanation:

Expression : cry, dome, super, random, ?

The pattern is that in each word, number of letters are increasing = 3,4,5,6

Now, the next word must contain 7 letters. Among the option, the word with seven letters is **Formula**.

=> Ans - (C)

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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.

OXXXXX, XXXXO, OXXX, XXO, OX, ?

- A X
- B XO
- C OO
- D O

Answer: D

Explanation:

Expression : OXXXXX, XXXXO, OXXX, XXO, OX, ?

The pattern followed is that the position of 'O' is shifted from one end to another and one 'X' is reduced in each step.

Thus, missing term = 0

=> Ans - (D)

Question 9

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

1.5, 9/4, 3, ?, 4.5, 21/4

A 15/4

B 7/2

C 8

D 9

Answer: A

Explanation:

The pattern followed is that in each number $\frac{3}{4}$ is added.

$$1.5 + \frac{3}{4} = \frac{9}{4}$$

$$\frac{9}{4} + \frac{3}{4} = \frac{12}{4} = 3$$

$$3 + \frac{3}{4} = \frac{15}{4}$$

$$\frac{15}{4} + \frac{3}{4} = \frac{18}{4} = 4.5$$

$$4.5 + \frac{3}{4} = \frac{21}{4}$$

=> Ans - (A)

Question 10

Divyansh's birthday is on Sunday 16th July. On what day of the week will be Shaan's Birthday in the same year if Shaan was born on 1st August?

A Tuesday

B Monday

C Wednesday

D Friday

Answer: A

Explanation:

According to the question, 16th July is Sunday

Number of days left in July = $31 - 16 = 15$

Similarly, odd days from 16th July till 1st August = $(15 + 1) \% 7$

$$= 1 + 1 = 2$$

Now, dividing 2 by 7, remainder = 2

Thus, day on 1st August = Sunday (+2) = Tuesday

=> Ans - (A)

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Question 11

The weights of 4 boxes are 30, 20, 50 and 90 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 200
- B 190
- C 140
- D 160

Answer: A

Explanation:

Weights of 4 boxes = 30, 20, 50 and 90 kilograms

(A) : 200 = not possible

(B) : 190 = 20 + 30 + 50 + 90

(C) : 140 = 50 + 90

(D) : 160 = 20 + 50 + 90

=> Ans - (A)

Question 12

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

SCALDING

- A DICES
- B SNAIL
- C ALIGN
- D CLANG

Answer: A

Explanation:

The word SCALDING does not contain any 'E' and thus the word 'Dices' cannot be formed.

=> Ans - (A)

Question 13

If **OUTLINE** is coded as **QWVNKPG**, then how will **MAN** be coded as?

- A FVQ
- B RNE
- C OCP
- D RKX

Answer: C

Explanation:

OUTLINE is coded as QWVNKPG

The pattern followed is :

O	U	T	L	I	N	E
(+2)	(+2)	(+2)	(+2)	(+2)	(+2)	(+2)
Q	W	V	N	K	P	G

Similarly, for MAN :

M	A	N
(+2)	(+2)	(+2)
O	C	P

=> Ans - (C)

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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?

$$50 + 3 \div 125 \times 5 - 25 = ?$$

- A 31
- B 17
- C 150
- D 55

Answer: C

Explanation:

$$\text{Expression} = 50 + 3 \div 125 \times 5 - 25 = ?$$

$$\equiv 50 \times 3 - 125 \div 5 + 25$$

$$= 150 - 25 + 25 = 150$$

=> Ans - (C)

Question 15

If $26\#14=80$; $5\#3=16$; $6\#5=22$; then what is the value of $14\#5=?$

- A 17
- B 38
- C 4
- D 9

Answer: B

Explanation:

The pattern followed is that both the numbers are added and the result is multiplied by 2.

$$\text{Eg : } (26 + 14) \times 2 = 40 \times 2 = 80$$

$$\text{and } (5 + 3) \times 2 = 8 \times 2 = 16$$

$$\text{and } (6 + 5) \times 2 = 11 \times 2 = 22$$

$$\text{Similarly, } (14 + 5) \times 2 = 19 \times 2 = 38$$

=> Ans - (B)

Question 16

Select the missing number from the given responses ?

117	28	145
35	?	111
211	11	222

- A 39
- B 76
- C 146
- D 333

Answer: B

Explanation:

In the first row, the number at the end is obtained by adding the other 2

Eg = $117 + 28 = 145$

and $211 + 11 = 222$

Similarly, $35 + x = 111$

$\Rightarrow x = 111 - 35 = 76$

\Rightarrow Ans - (B)

SSC CGL Important Questions PDF

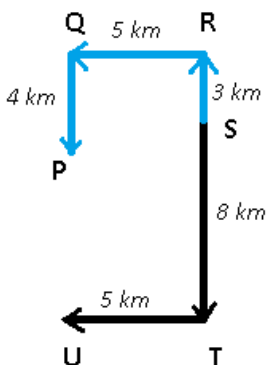
Question 17

A and B start from the same point. A cycles 8 km South, then turns to her right and cycles 5 km. B cycles 3 km North, then turns West and cycles 5 km, then turns to her left and cycles 4 km. Where is B with respect to A now?

- A 7 km North
- B 7 km South
- C 15 km North
- D 15 km South

Answer: A

Explanation:



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

A cycles 8 km south and reaches T, then takes right turn and reaches point U by cycling 5 km.

Similarly, B cycles north for 3 km and reaches R, then turns left for 5 km and finally stops at point P.

Thus, $PU = 8 + 3 - 4 = 7$ km

∴ B is 7 km to the north of A.

=> Ans - (A)

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 Chinese crackers be banned?

Argument I : No, China will be hurt by this decision.

Argument II : Yes, crackers kill insects.

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:

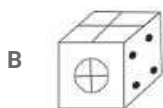
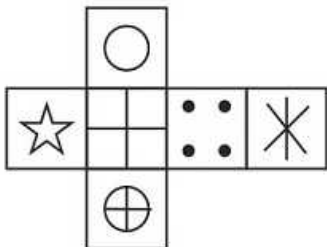
Whether cracker kills insects or not, that's a different issue and should not effect the ban on crackers and similar criteria applies for the first argument.

Thus, neither I nor II is strong.

=> Ans - (D)

Question 19

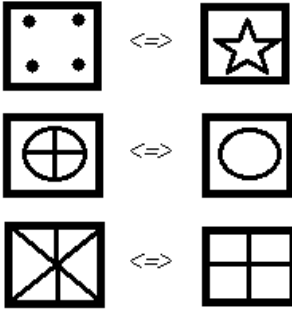
Which of the following cube in the answer figure cannot be made based on the unfolded cube in the question figure?



Answer: A

Explanation:

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



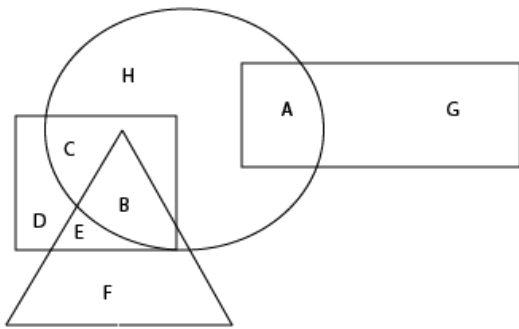
Since, the opposite sides cannot be adjacent in the cube, thus the cube in the first option is not possible.

=> Ans - (A)

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Question 20

In the following figure, square represents Pharmacists, triangle represents Dancers, circle represents Gynecologists and rectangle represents Women. Which set of letters represents Gynecologists who are neither Women nor Dancers?



A F,B,H

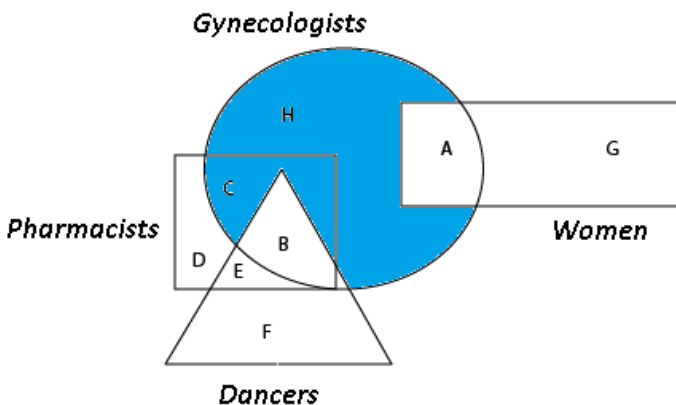
B B,D,H

C D,E,A

D C,H

Answer: D

Explanation:

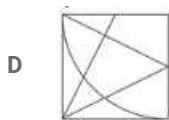
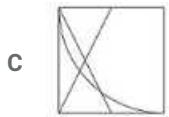
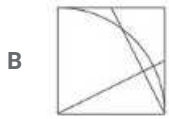
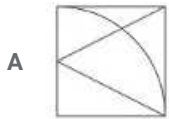
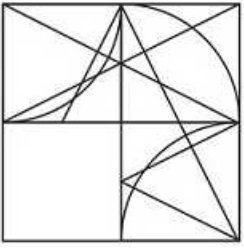


Gynecologists who are neither Women nor Dancers are represented by blue colour = C + H

=> Ans - (D)

Question 21

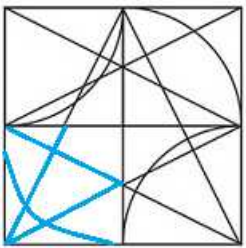
Which answer figure will complete the pattern in the question figure



Answer: D

Explanation:

When we complete the above figure, we get :

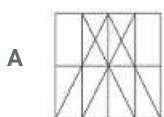
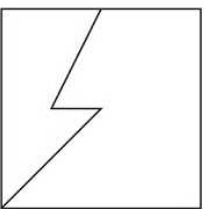


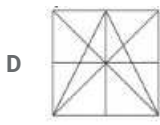
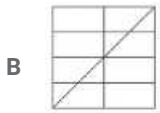
Now, the last figure resembles the above missing part in blue colour.

=> Ans - (D)

Question 22

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





Answer: D

Explanation:

The question figure is embedded in the following figure.

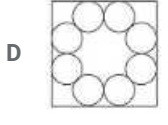
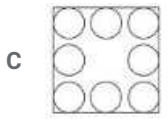
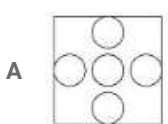
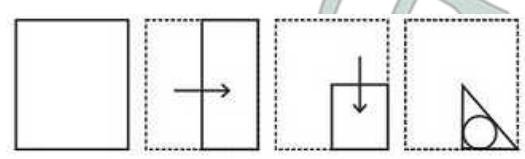


=> Ans - (D)

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Question 23

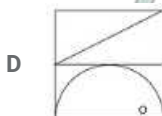
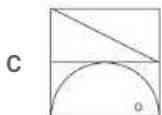
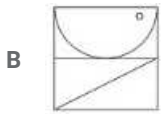
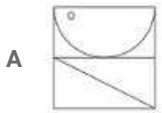
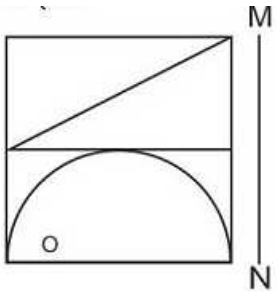
A piece of paper is folded and punched as shown below in the question figures. From the given answer figures, indicate how it will appear when opened.



Answer: D

Question 24

What is the mirror image of the below-given image? If a mirror is placed on the right side as given below the image.



Answer: C

Explanation:

A vertical mirror is placed, so the object at the left will appear at the right and vice-versa. The triangle will stay above the semi circle but the the triangle will be reversed, and thus the first two options are eliminated.

Also, the small circle at bottom left will appear at bottom right and the triangle will point towards right in the mirror, so the last option is also not possible.

=> Ans - (C)

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 'W' can be represented by 42, 34 etc and '2' can be represented by 97, 69 etc. Similarly, you have to identify the set for the word 'ROPE'.

Matrix - I

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

Matrix - II

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

A 10,24,56,69

B 03,02,58,79

C 85,89,88,20

D 04,32,97,65

Answer: C

Explanation:

(A) : 10,24,56,69 = HHYZ

(B) : 03,02,58,79 = HIWX

(C) : 85,89,88,20 = **ROPE**

(D) : 04,32,97,65 = EAZT

=> Ans - (C)

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General Awareness

Instructions

For the following questions answer them individually

Question 26

In India the reform policies were first introduced in which year?

A 1951

B 1971

C 1991

D 2001

Answer: C

Explanation:

The reform policies were first introduced in **1991** in India.

=> Ans - (C)

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Question 27

The _____ of a firm is a relationship between inputs used and output produced by the firm.

A Marginal product

B Production function

C Total product

D Average product

Answer: B

Question 28

Under which jurisdiction the President of India can refer any matter that is of public importance or that which involves interpretation of Constitution to Supreme Court for advice?

A Original Jurisdiction

B Writ Jurisdiction

C Appellate Jurisdiction

D Advisory Jurisdiction

Answer: D

Question 29

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

A 7

B 1

C 18

D 10

Answer: B

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Question 30

During their rule the British persuaded or forced cultivators in Assam to grow _____.

A Jute

B Tea

C Sugarcane

D Wheat

Answer: B

Question 31

The Chola kingdom mostly ruled which region of India?

A East

B West

C North

D South

Answer: D

Question 32

In due course of time the meander loop cuts off from the river and forms a cut-off lake, also called an _____ lake.

A ox-bow

B oasis

C lagoon

D tectonic

Answer: A

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Question 33

The oceanic crust mainly consists of silica and _____.

- A magnesium
- B iron
- C manganese
- D sulphur

Answer: A

Question 34

Order Primata comprising monkey, gorilla and gibbon is placed in class Mammalia along with order Carnivora that includes?

- A Giraffe, Camels and Elephants
- B Crocodile, Lizard and Snake
- C Lion, Leopard and Tiger
- D Tiger, Cats and Dogs

Answer: D

Question 35

In roots, the protoxylem lies towards periphery and metaxylem lies towards the centre. Such arrangement of primary xylem is called _____.

- A Xylem fibres
- B Xylem parenchyma
- C Exarch
- D Endarch

Answer: C

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Question 36

Which is an example of Mollusca Phylum?

- A Locust
- B Butterfly
- C Scorpion
- D Octopus

Answer: D

Question 37

If the speed of an object moving along a straight line keeps changing, its motion is said to be _____.

- A Uniform
- B Periodic
- C Circular
- D Non-uniform

Answer: D

Question 38

The substances which reduce friction are called _____.

- A irregularities
- B lubricants
- C adhesives
- D viscous

Answer: B

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Question 39

'Notepad' is a text editor in which of the following operating systems?

- A Windows
- B Google Chrome
- C Mozilla Firefox
- D Macintosh

Answer: A

Question 40

Magnesium oxide (MgO) + Water (H₂O) = ?

- A [Mg(OH)]
- B [Mg₂(OH)]
- C [Mg(O₂H)₂]
- D [Mg(OH)₂]

Answer: D

Question 41

What is the unit of calorific value?

- A kN/kg
- B kJ/kg
- C kW/sec
- D kCal/sec

Answer: B

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Question 42

According to Central Pollution Control Board (CPCB), particulate size _____ micrometers or less in diameter are responsible for causing the greatest harm to human health.

- A 0.5
- B 2.5
- C 5
- D 10

Answer: B

Question 43

_____ scheme launched by the Central Government is a special social security scheme which includes Pension and Life Insurance.

- A Deen Dayal Upadhyaya Grameen Kaushalya Yojana
- B Deendayal Upadhyaya Gram Jyoti Yojana
- C Mahatma Gandhi Pravasi Suraksha Yojana
- D Indradanush Scheme

Answer: C

Question 44

Who invented Space Pen?

- A Paul C. Fisher
- B Rudolf Diesel
- C Wright Brothers
- D Alexander Fleming

Answer: A

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Question 45

Who was the 2015 Men's Rugby World Cup Runner-Up?

- A New Zealand
- B South Africa
- C Australia
- D England

Answer: C

Question 46

Group of Monuments at Hampi was built by which rulers?

- A Harihara and Bukka
- B Udayin and Shishunaga
- C Devavarman and Vainya
- D Maravarman and Sirmara

Answer: A

Question 47

Which of the following won the Best Feature Film Award at the 64th National Film Awards held in the year 2017?

- A Rustom
- B Kaasav
- C Dangal
- D Airlift

Answer: B

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Question 48

Which of the statements given below are correct?

1. The author of the novel 'Fellside' is Victor LaValle.
2. The author of the novel 'A Head Full of Ghosts' is M.R Carey.
3. The author of the novel 'Brave New World' is Aldous Huxley.

- A 1 and 2
- B 2 and 3
- C 1 and 3
- D 1, 2 and 3

Answer: A

Question 49

Which county was in the first rank in the 2016 Human Development Index published by the United Nations Development Programme?

- A Norway
- B Australia
- C Germany
- D Denmark

Answer: A

Question 50

Name the estuary on the border of India and Pakistan?

- A Daman Creek
- B Sir Creek
- C Karwar Creek
- D Mandovi Creek

Answer: B

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'.

He was going to (a:/ like the clothes she (b:/ bought of the trip. (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'.

"You didn't answer my (a:/ question," he said, (b:/ stepping to her. (c:/No Error (d:

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

Answer: C

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.

After missing four days of school due to a _____ of flu, Babita struggled to make up for her missing work.

- A bout
- B about
- C amount
- D array

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.

The company refunded the customer's money in _____ with the laws.

- A according
- B accordingly
- C accordance
- D accord

Answer: C

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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.

Affectionate

- A Neglectful
- B Aloof
- C Sympathetic
- D suppressive

Answer: C

Question 56

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

Consequent

- A Inception
- B Ensuing
- C Dawn
- D Creation

Answer: B

Question 57

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

Parsimonious

- A Avaricious
- B Chintzy
- C Frugal
- D Lavish

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.

To filch

- A To smuggle
- B To appropriate
- C To encroach
- D To philanthropy

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.

In black and white

- A Be colour blind
- B Not able to appreciate the finer things in life
- C Be excessively prejudiced against something or someone
- D A very clear choice that causes no confusion

Answer: D

Question 60

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

Out of date

- A Not have time; very busy
- B Not stick to the schedule
- C Fail to find a partner
- D Old-fashioned

Answer: D

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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".

There's nothing wrong with (having to) a different opinion.

- A have to
- B has to
- C 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".

It has (being) too dangerous for too many people.

- A to be
- B become
- C be
- 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.

Conformity to facts

- A Veracity
- B Deceit

C Hypothesis

D Theory

Answer: A

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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.

Search for and collect anything usable from discarded waste

A Scavenge

B Disperse

C Dissipate

D Scatter

Answer: A

Question 65

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

A Extrution

B Extrusion

C Extrosion

D Extrotion

Answer: B

Question 66

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

A Reterate

B Reiterate

C Reiterete

D Reterete

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.

Then the gigantic figure

X-alarming spectacle

Y-slipped off the tree and stood

Z-up before us, a truly

- A YZX
- B YXZ
- C XZY
- D XYZ

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.

We admit as much

X-that it is related to the body

Y-when we say that the mind

Z-is immaterial, and yet hold

- A YXZ
- B XZY
- C YZX
- D XYZ

Answer: C

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.

No one responded to my online ad.

- A My online ad was not responded to by anyone.
- B My online ad is not responded to by anyone.
- C Response by no one was given to my online ad.
- D Response by no one is given to my online ad.

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.

Ajay said to my sister, "It's wonderful!"

- A Ajay tells my sister that it's wonderful.
- B Ajay tells to my sister that it was wonderful.
- C Ajay told my sister that it was wonderful.
- D Ajay told to my sister that it's being wonderful.

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.

For a minute, dispel all the mental images and stereotypes; ____ (1) ____ the jargon of 'opening up,' 'flow,' 'nidra,' and 'balance'. Focus ____ (2) ____ what you need for your body. ____ (3) ____ you aren't sure, begin here – with just one asana. It's one of the basic ones ____ (5) ____ I lead every class with. You can do it as a stand-alone piece ____ (6) ____ begin with it when you're at the gym.

Question 71

(1)

- A forgetful
- B forget
- C forgot
- D forgotten

Answer: B

Question 72

(2)

- A of
- B for
- C off
- D on

Answer: D

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Question 73

(3)

- A For
- B But

- C If
 - D Whether
- Answer: C**

Question 74
(4)

- A this
 - B these
 - C that
 - D those
- Answer: C**

Question 75
(5)

- A or
 - B nor
 - C either
 - D neither
- Answer: A**

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Mathematics

Instructions

For the following questions answer them individually

Question 76

Select the correct option:

Convert decimal 101 to binary .

- A 1101001
- B 1100111
- C 1101011
- D 1100101

Answer: D

Explanation:

(diagram)

$$(101)_{10} = (1100101)_2$$

so the answer is option D.

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Question 77

A can paint a house in 42 days and B can do it in 21 days. Along with C, they can finish the job in 7 days only. C alone can do the painting job in how many days, ?

- A 9
- B 12
- C 14
- D 15

Answer: C

Explanation:

Let the total work = LCM of 42 & 21 = 42 units

A's efficiency = $\frac{42}{42} = 1$

B's efficiency = $\frac{42}{21} = 2$

efficiency of A+B+C = $\frac{42}{7} = 6$

$1+2+\text{efficiency of C} = 6$

efficiency of C = $6-3 = 3$

C alone can complete the work in $\frac{42}{3} = 14$ days

So the answer is option C.

Question 78

What is the area (in sq cm) of a circle whose circumference is 26.4 cm?

- A 55.44
- B 44.55
- C 33.44
- D 44.33

Answer: A

Explanation:

$$2\pi r = 26.4$$

$$2 \times \frac{22}{7} \times r = 26.4$$

$$r = 4.2$$

$$\text{area} = \pi r^2 = \frac{22}{7} (4.2)^2 = 55.44 \text{ cm}^2$$

So the answer is option A.

Question 79

The cost price of an article is x. It is marked up by 120%. It is sold at Rs 8800 after giving 20% discount. What is the value (in Rs) of x?

- A 7680
- B 6000
- C 6680

D 5000

Answer: D

Explanation:

$$\frac{100-20}{100} \times \frac{100+120}{100} \times (x) = 8800$$

$$\frac{80}{100} \times \frac{220}{100} \times (x) = 8800$$

$$x = 8800 / (1.76) = 5000$$

So the answer is option D.

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Question 80

A bag has Rs 43 in the form of 5-rupee, 50-paise and 10-paise coins in the ratio of 1:5:11. What is the total number of 50-paise coins?

A 5

B 25

C 55

D 50

Answer: B

Explanation:

Let 5/- coins = x

50paise coins = 5x

10paise coins = 11x

total amount = 43

$$(x)(5) + (5x)(0.5) + (11x)(0.1) = 43$$

$$8.6x = 43$$

$$x = 5$$

$$\text{No. of 50paise coins} = 5x = 5(5) = 25$$

so the answer is option B.

Question 81

In the first 45 overs of a 50 over innings, the run rate was 5.8 runs per over. What is the required run rate in the remaining overs to reach the target of 295 runs?

A 6.9

B 6.8

C 6.7

D 6.6

Answer: B

Explanation:

$$\text{Runs After 45 overs} = 45 \times 5.8 = 261$$

$$\text{required runs} = 295 - 261 = 34$$

remaining overs = $50 - 45 = 5$

required run rate = $34/5 = 6.8$

so the answer is option B.

Question 82

A milkman buys milk at Rs 24 per litre. He adds $1/5$ of water to it and sells the mixture at Rs 32 per litre. What will be his gain (in %)?

A 50

B 40

C 30

D 60

Answer: D

Explanation:

Let he buy 5 litres

CP = $5 \times 24 = 120$

he add $1/5$ th quantity = 1 litre of water

now total quantity = 6 litres

he sold at 32 per litre

SP = $6 \times 32 = 192$

gain = 72

%gain = $\frac{72}{120} \times 100 = 60\%$

so the answer is option D.

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Question 83

When a number is increased by 105, it becomes 135% of itself. What is the number?

A 450

B 300

C 600

D 400

Answer: B

Explanation:

$105 = 35\%$ of number

1% of number = 3

100% of number = 300

So the answer is option B.

Question 84

Two cyclists P and Q cycle at 20 km/hr and 16 km/hr towards each other respectively. What was the distance (in kms) between them when they started if they met after 40 minutes?

- A 36
- B 30
- C 25
- D 24

Answer: D

Explanation:

$$\text{Distance b/w them} = \text{distance travelled by P} + \text{distance travelled by Q} = 20 \times \frac{40}{60} + 16 \times \frac{40}{60} = 36 \times \frac{2}{3} = 24$$

So the answer is option D.

Question 85

If the amount received at 10% per annum Compound interest after 3 yrs is Rs 19965, then what will have been the principal (in Rs) amount?

- A 16000
- B 15000
- C 17000
- D 18000

Answer: B

Explanation:

$$P\left(1 + \frac{10}{100}\right)^3 = 19965$$

$$P\left(1 + \frac{1}{10}\right)^3 = 19965$$

$$P\left(\frac{11}{10}\right)^3 = 19965$$

$$P\left(\frac{1331}{1000}\right) = 19965$$

$$P = 15000$$

So the answer is option B.

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Question 86

If $8x/3 + [7(5 - 2x/3)]/2 = 1/2$, then what is the value of x?

- A -17
- B 51
- C -51
- D 17

Answer: C

Explanation:

$$8x/3 + [7(5 - 2x/3)]/2 = 1/2$$

$$8x/3 + [35 - 14x/3]/2 = 1/2$$

$$8x/3 + 35/2 - 7x/3 = 1/2$$

$$x/3 = -34/2$$

$$x/3 = -17$$

$$x = -51$$

So the answer is option C.

Question 87

If $a - b = -1$ and $ab = 6$, then what is the value of $a^3 - b^3$?

A 33

B -19

C 18

D 35

Answer: B

Explanation:

$$a^3 - b^3 = (a - b)^3 + 3(ab)(a - b) = (-1)^3 + 3(6)(-1) = -1 - 18 = -19$$

so the answer is option B.

Question 88

The sum of a fraction and 3 times its reciprocal is $31/6$. What is the fraction?

A $2/9$

B $9/2$

C $5/4$

D $4/5$

Answer: B

Explanation:

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

$$\frac{1}{x} + 3x = \frac{31}{6}$$

$$\Rightarrow (1 + 3x^2) = \frac{31}{6} \times x$$

$$\Rightarrow 18x^2 - 31x + 6 = 0$$

$$\Rightarrow (x - \frac{27}{18})(x - \frac{4}{18}) = 0$$

$$\Rightarrow (x - \frac{3}{2})(x - \frac{2}{9}) = 0$$

$$\Rightarrow x = 3/2 \text{ or } 2/9$$

$$\Rightarrow \text{fraction} = \frac{1}{x} = 2/3 \text{ (or) } 9/2$$

so the answer is option B.

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Question 89

The 2nd and 8th term of an arithmetic progression are 17 and -1 respectively. What is the 14th term?

- A -22
- B -25
- C -19
- D -28

Answer: C

Explanation:

$$T_{\frac{1}{2}} = a + d = 17 \text{-----(1)}$$

$$T_8 = a + 7d = -1 \text{-----(2)}$$

on solving (1) AND (2)

$$d = -3 \text{ \& } a = 20$$

$$T_{14} = a + 13d = 20 + 13(-3) = -19$$

so the answer is option C.

Question 90

What is the reflection of the point (2, 3) in the line $y = 4$?

- A (2, 5)
- B (2, -5)
- C (-2, -5)
- D (-2, 5)

Answer: A

Explanation:

(diagram)

From the diagram, the reflection of the point (2, 3) in the line $y = 4$ is (2, 5)

so the answer is option A.

Question 91

Point P (-2, 5) is the midpoint of segment AB. Co-ordinates of A are (-5, y) and B are (x, 3). What is the value of x?

- A 1
- B -1
- C 2
- D -2

Answer: A

Explanation:

$$\text{Mid-point} = \left(\frac{x_1+x_2}{2}, \frac{y_1+y_2}{2} \right) \Rightarrow \frac{-5+x}{2} = -2 \Rightarrow x = -4 + 5 = 1$$

so the answer is option A.

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Question 92

What is the equation of a line having a slope $-1/3$ and y-intercept equal to 6?

- A $x + 3y = 18$
- B $x - 3y = 6$
- C $x + 3y = -18$
- D $x - 3y = -6$

Answer: A

Explanation:

$$y = mx + c$$

$$y = -x/3 + 6$$

$$3y = -x + 18$$

$$x + 3y = 18$$

so the answer is option A.

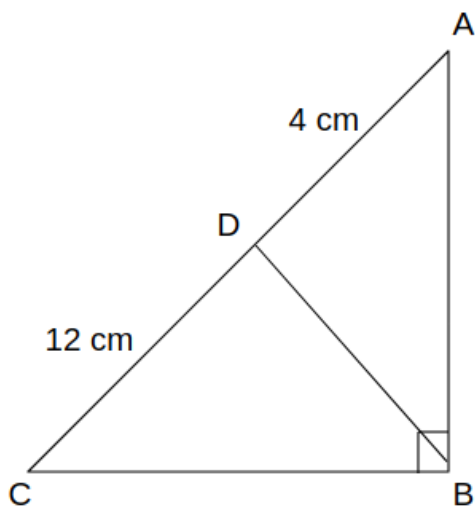
Question 93

$\triangle ABC$ is right angled at B. BD is its altitude. AD = 4 cm and DC = 12 cm. What is the value of AB (in cm)?

- A 9
- B 10
- C 6
- D 8

Answer: D

Explanation:



$\triangle ABC$ and $\triangle ADB$ are similar

$$AC/AB = AB/AD$$

$$16/x = x/4$$

$$64 = X^2$$

$$X = 8$$

So the answer is option D.

Question 94

What is the value of $\sin 60^\circ + \frac{1}{2} \operatorname{cosec} 45^\circ$?

- A $(\sqrt{3} + 2)/2$
- B $(\sqrt{3} + \sqrt{2})/\sqrt{2}$
- C $(\sqrt{3} + 2)/\sqrt{2}$
- D $(\sqrt{3} + \sqrt{2})/2$

Answer: D

Explanation:

$\sin 60^\circ + \frac{1}{2} \operatorname{cosec} 45^\circ$

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

$$\frac{(\sqrt{3} + \sqrt{2})}{2}$$

So the answer is option D.

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Question 95

ΔLMN is right angled at M. If $\angle N = 45^\circ$. What is the length (in cm) of MN, if $NL = 6\sqrt{2}$ cm?

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

Answer: D

Explanation:

(diagram)

$$\cos N = \frac{x}{6\sqrt{2}}$$

$$\cos 45^\circ = \frac{x}{6\sqrt{2}}$$

$$\frac{1}{\sqrt{2}} = \frac{x}{6\sqrt{2}}$$

$$x = 6$$

So the answer is option D.

Question 96

If $\cos \theta = \frac{35}{37}$, then what is the value of $\operatorname{cosec} \theta$?

- A $\frac{37}{12}$
- B $\frac{33}{12}$
- C $\frac{35}{12}$
- D $\frac{12}{35}$

Answer: A

Explanation:

$$\cos \theta = 35/37$$

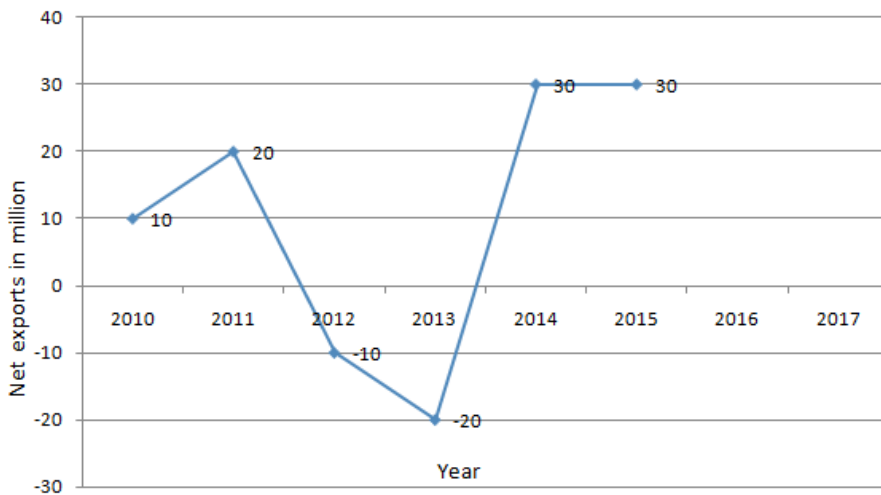
$$\sin \theta = 12/37 \quad (37^2 - 35^2 = 12^2)$$

$$\operatorname{cosec} \theta = 37/12$$

So the answer is option A.

Instructions

The line graph shows Net exports in million USD of a certain country (Net exports = Exports - Imports). Study the diagram and answer the following questions.



Question 97

In how many years were the net exports more than that of the previous year?

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

Answer: D

Explanation:

In 2011 and 2014 only

So the answer is option D.

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Question 98

If the exports in 2013 were 90 million USD then what was the imports (in million USD)?

- A 80
- B 110
- C 70
- D 100

Answer: B

Explanation:

Net exports in 2013 = -20

exports - imports = -20

90 - imports = -20

imports = 90+20 = 110

So the answer is option B.

Question 99

What is the ratio of net exports in year 2015 to that in year 2011?

A 2 : 3

B 3 : 1

C 1 : 3

D 3 : 2

Answer: D

Explanation:

ratio = 30 : 20 = 3 : 2

So the answer is option D.

Question 100

Cumulative net exports (in million USD) from the beginning of 2011 to the end of 2014 was?

A 80

B 40

C 20

D 60

Answer: C

Explanation:

Cumulative net exports (in million USD) from the beginning of 2011 to the end of 2014 = 20-10-20+30 = 20

So the answer is option C.

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