



SSC CGL 11 June 2019 Shift-2

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Reasoning

Instructions

For the following questions answer them individually

Question 1

Introducing Rukmani, Vijay said, "She is my wife's only brother's son's mother." How is Rukmani's husband related to Vijay?

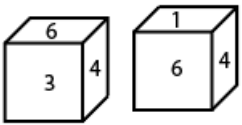
- A Brother-in-law
- B Father-in-law
- C Son
- D Father

Answer: A

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Question 2

Two different positions of a dice are shown below. Which number appears on the face opposite the number '1'?



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

Answer: B

Explanation:

In the first dice three faces are shown: 4, 6 and 3

In the second dice three faces are shown: 4, 6 and 1

This is only the case when 3 and 1 are on the opposite sides.

Hence option (b) is correct

Question 3

Select the term that will come next in the following series.

2, 7, 17, 32, 52, ?

- A 77
- B 126
- C 102
- D 134

Answer: A

Explanation:

$$2 + 5 = 7$$

$$7 + 10 = 17$$

$$17 + 15 = 32$$

$$32 + 20 = 52$$

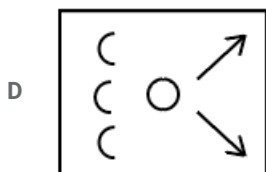
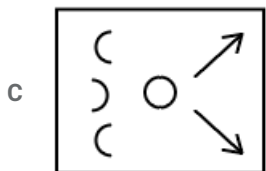
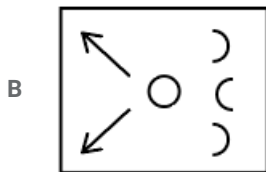
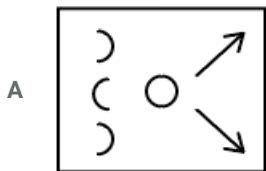
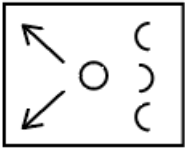
so

$$52 + 25 = 77$$

Hence option (a) is correct.

Question 4

Select the correct mirror image of the given figure when the mirror is placed to the right of the figure.



Answer: A

Explanation:

The arrows which are now on the left side and up facing will be on the right side upfacing.

The circle in the centre will remain as it is.

The circle which is open on the left side will be open on the right side and vice versa.

Hence option (a) is correct.

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Question 5

Find the missing number from the below options.

6 24 96

7 28 112

13 52 ?

A 208

B 232

C 116

D 142

Answer: A

Explanation:

Row 1: $6 \times 4 = 24$, $24 \times 4 = 96$

Row 2: $7 \times 4 = 28$, $28 \times 4 = 112$

Row 3: $13 \times 4 = 52$, $52 \times 4 = 208$

Hence option (a) is correct.

Question 6

'Stag' is related to 'Doe' in the same way as 'Bull' is related to

A Vixen

B Ox

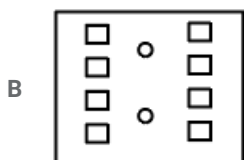
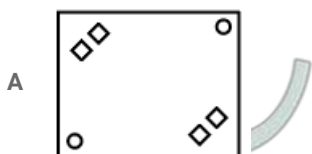
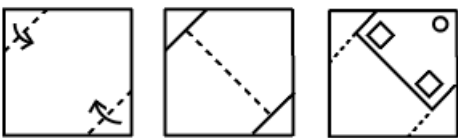
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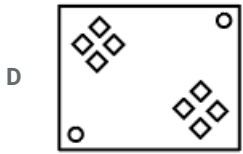
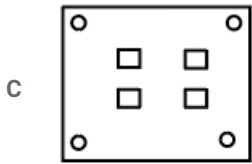
D Cow

Answer: D

Question 7

A square paper is folded and cut as shown below. How will it appear when unfolded ?



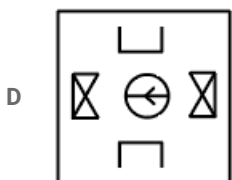
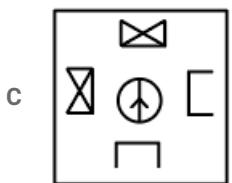
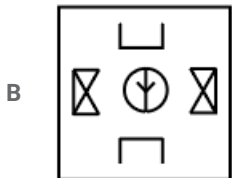
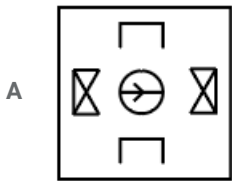
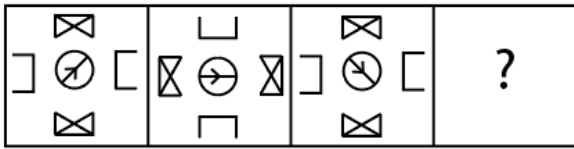


Answer: D

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Question 8

Select the figure that will come next in the following figure series.



Answer: B

Question 9

Find the missing number from the below options.

| | | |
|----|----|---|
| 50 | 31 | 9 |
| 43 | 11 | 6 |
| 42 | 21 | ? |

- A 5
- B 9
- C 6
- D 7

Answer: D

Question 10

Select the option that is related to the third word in the same way as the second word is related to the first word.
Potato : Starch :: Stevia : ?

- A Salt
- B Butter
- C Sugar
- D Milk

Answer: C

Explanation:

As potato contains starch, stevia contains sugar

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Question 11

Two statements are given, followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:

- All humans are parents.
- All parents are teachers.

Conclusions:

- I. Some teachers are parents.
- II. Some teachers are humans.

- A Either conclusion I or II follows
- B Only conclusion II follows
- C Both the conclusions follow
- D Only conclusion I follows

Answer: C

Question 12

Vishal is three times as old as Saksham. After 8 years, he will be two times as old as Saksham. After further 8 years, what will be Vishal's age?

- A 48 years
- B 24 years
- C 40 years
- D 32 years

Answer: D

Explanation:

Assume Saksham's age = x

So Vishal's age = $3x$

After 8 years

$$3x + 8 = 2(x + 8)$$

$$x = 8$$

$$\text{so } 3x = 24$$

after further 8 years age of vishal = $24 + 8 = 32$

Question 13

Select the terms that will replace ? in the following series
K, M, O, ?, S, U, ?, Y

- A Q, X
- B Q, W
- C P, W
- D R, W

Answer: B

Explanation:

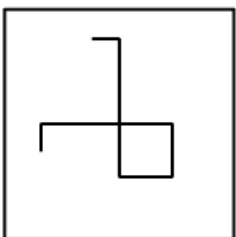
this alphabetical series is increased by +2

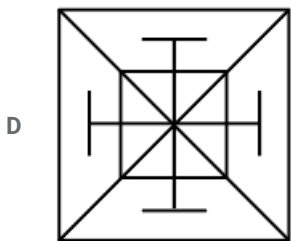
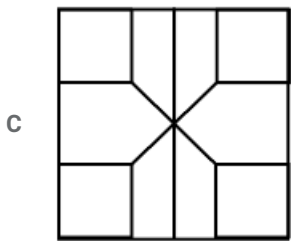
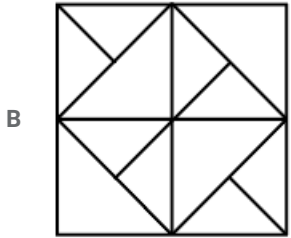
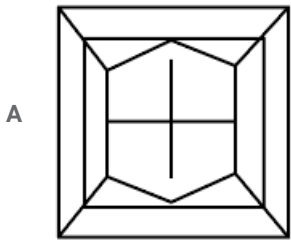
hence option (b) is correct

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Question 14

Select the figure in which the given figure is embedded.





Answer: D

Question 15

Three of the following four letter-clusters are alike in a certain way and one is different. Pick the odd one out.

A DWKO

B HSYB

C QJUF

D GTXC

Answer: A

Question 16

Which two signs should be interchanged to make the given equation correct?

$$12 \times 8 \div 36 + 3 - 6 = 102$$

A + and -

B ÷ and +

C × and +

D \div and \times

Answer: B

Explanation:

$$12 \times 8 + 36 \div 3 - 6 = 102$$

$$12 \times 8 + 12 - 6 = 102$$

$$96 + 12 - 6 = 102$$

$$102 = 102$$

Henc option (b) is correct

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Question 17

Arrange the following words in a logical and meaningful order.

1. Brass
2. Gold
3. Silver
4. Platinum
5. Iron

A 2, 1, 5, 3, 4

B 5, 4, 3, 2, 1

C 3, 1, 5, 2, 4

D 5, 1, 3, 2, 4

Answer: D

Explanation:

series of metals on the basis of their values, iron is least expensive whereas platinum is highly expensive

Question 18

If N = 28 and ORE = 76, then how will you code PALE?

A 72

B 68

C 19

D 76

Answer: B

Explanation:

numerical value of N= 14

$$14 \times 2 = 28$$

sum of numerical values of ORE = $15 + 18 + 5 = 38$

$$38 \times 2 = 76$$

similarly PALE = $16 + 1 + 12 + 5 = 34 \times 2 = 68$

Question 19

In a code language, PAINTER is written as SCLPWGU. How will WRITER be written in the same language?

- A ZTLVGV
- B ZTLVHU
- C ZTLVHT
- D YTLVHT

Answer: C

Explanation:

P + 3 = S

A + 2 = C

I + 3 = L

N + 2 = P

T + 3 = W

E + 2 = G

R + 3 = U

same code will follows in WRITER, hence option (c) is correct

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Question 20

Select the letter cluster that will come next in the following series.

GZI, HYJ, IXK, JWL, ?

- A KVM
- B KUM
- C JVN
- D LVM

Answer: A

Explanation:

there are three alphabetical series here

+1 in first series

-1 in second series

+1 in third series

Question 21

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

9 : 86 : 13 :

- A 175
- B 135
- C 174
- D 124

Answer: C

Explanation:

$$9^2 + 5 = 86$$

$$13^2 + 5 = 174$$

hence option (c) is correct

Question 22

Three of the following four number-pairs are alike in a certain way and one is different. Pick the odd one out.

A 13-234

B 7-126

C 11-198

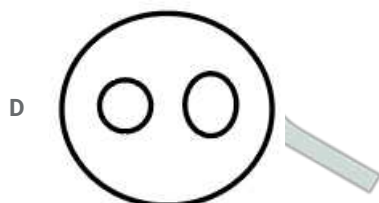
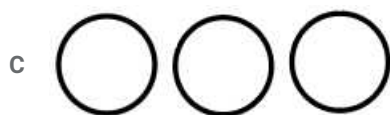
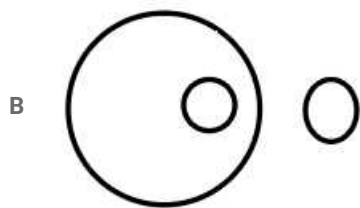
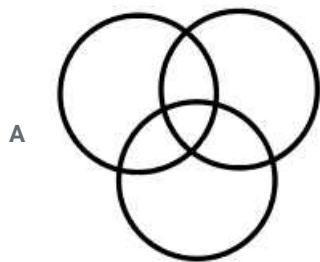
D 9-164

Answer: D

General Science Notes for SSC CGL

Question 23

Choose the Venn diagram from the given options which best represents the relationship amongst the following classes: Cup, Table, Crockery



Answer: B

Explanation:

cup comes under crockery, table comes under furniture

Question 24

Three of the following four words are alike in a certain way and one is different. Pick the odd word out.

- A Earth
- B Jupiter
- C Mars
- D Metis

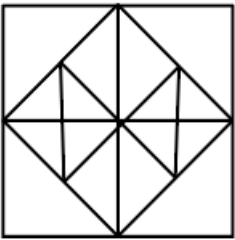
Answer: D

Explanation:

option a,b,c are planets, but metis is not a planet hence option D is correct

Question 25

How many triangles are there in the following figure ?



- A 34
- B 30
- C 28
- D 32

Answer: D

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General knowledge

Instructions

For the following questions answer them individually

Question 26

In January, ____ was named World No.1 boxer by International Boxing Association (AIBA).

- A Mary Kom
- B Laishram Sarita Devi
- C Simranjit Kaur
- D Lovlina Borgohain

Answer: A

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Question 27

In which year did Vasco De Gama land in Calicut (Kozikode)?

- A 1498
- B 1458
- C 1472
- D 1442

Answer: A

Question 28

Who among the following was the first president of the Republic of China?

- A Yuan Shikai
- B Hu Jintao
- C Li Xiannian
- D Yang Sangkun

Answer: A

Question 29

Who among the following is/was the longest serving prime minister of Bangladesh?

- A Shah Azizur Rahman
- B Khaleda Zia
- C Sheikh Hasina
- D Sheikh Mujibur Rahman

Answer: C

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Question 30

'India of My Dreams' is a compilation of the writings and speeches of _____.

- A Jawaharlal Nehru
- B Dr Rajendra Prasad
- C Mahatma Gandhi
- D Sardar Vallabhbhai Patel

Answer: C

Question 31

Manipur, Meghalaya and Tripura became states under _____.

- A North Eastern Retention (Reconstruction) Act, 1971
- B North Eastern Republic of India Act, 1972
- C North Eastern Region New State Act, 1972
- D North Eastern Areas (Reorganisation) Act, 1971

Answer: D

Question 32

Name the woman of Indian origin who was appointed Chief Executive Officer of PepsiCo in the year 2006.

- A Kiran Majumdar Shaw
- B Kalpana Morparia
- C Indra Nooyi
- D Chanda Kochhar

Answer: C

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Question 33

As per Mankiw's Principles of Economics, the standard of living of a country depends on the country's _____.

- A nominal wages
- B government policy
- C ability to produce goods and services
- D average wages

Answer: C

Question 34

Identify the unit of measuring intensity of sound.

- A Decibels
- B Knots
- C Candela
- D Ampere

Answer: A

Question 35

In which year did the Patharughat Peasant Uprising against the tax policies of British take place in Assam?

- A 1873

B 1862

C 1885

D 1894

Answer: D

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Question 36

Daringbadi hill station is located in the Indian state of _____.

A Maharashtra

B Kerala

C West Bengal

D Odisha

Answer: D

Question 37

Who among the following was the first chief minister of Kerala?

A E M S Namboodiripad

B Pattom A Thanu Pillai

C R Shankar

D C Achutha Menon

Answer: A

Question 38

Which Indian state launched the PRANAM Commission to protect parents of government employees?

A Assam

B Haryana

C Maharashtra

D Punjab

Answer: A

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Question 39

Who discovered the first vaccine for smallpox?

A Louis Pasteur

- B John Hunter
- C Alexander Fleming
- D Edward Jenner

Answer: D

Question 40

In January 2019, ____ became the first Indian state to implement 10% reservation for the economically weaker sections.

- A Tripura
- B Madhya Pradesh
- C Gujarat
- D Odisha

Answer: C

Question 41

When the output is equal to zero, the variable cost is ____.

- A constant
- B zero
- C minimum
- D maximum

Answer: B

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Question 42

The 'Diphu Pass' which is the tri-junction between India, Myanmar and China is on this Border Line?

- A Durand Line
- B Radcliffe Line
- C McMahon Line
- D Palk Strait

Answer: C

Question 43

Which instrument is used to measure the intensity of light produced by an unknown source in terms of a standard source?

- A Dynamometer
- B Calipers

C Photometer

D Ammeter

Answer: C

Question 44

Which of the following is the third highest waterfall in India?

A Nohkalikai falls

B Courtallam Falls

C Suruli Falls

D Agaya Gangai

Answer: A

Explanation:

The third highest waterfall in India, with a height of 340 meters is the Nohkalikai falls, located near Cherrapunji on the East Khasi Hills district of Meghalaya.

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Question 45

Kandyan Dance' is a typical dance form practiced in _____.

A Nepal

B Sri Lanka

C India

D Bhutan

Answer: B

Question 46

Which Indian archer won the gold medal in the women's recurve event at the 2018 Hyundai Archery World Cup?

A Bombayla Devi Laishram

B Chekrovolu Swuro

C Deepika Kumari

D Dola Banerjee

Answer: C

Question 47

The Indian badminton player who won the Canadian Open Women's Doubles title in 2015 along with Ashwini Ponnappa was _____.

A P V Sindhu

B P C Tulasi

- C Saina Nehwal
- D Jwala Gutta

Answer: D

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Question 48

Which of the following is the chemical name of baking soda?

- A Sulphate
- B Sodium carbonate
- C Sodium hydrogen carbonate
- D Calcium hydroxide

Answer: C

Question 49

Kazi Nazrul Islam is the national poet of _____.

- A Indonesia
- B Pakistan
- C Afghanistan
- D Bangladesh

Answer: D

Question 50

According to _____, pressure is equal to the force divided by the area on which it acts.

- A Hooke's Law
- B Newton's Law
- C Pascal's Law
- D Stefan-Boltzmann Law

Answer: C

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Quant

Instructions

For the following questions answer them individually

Question 51

An article is sold for ₹1,680 after two successive discounts of 20% and 16%. What is the marked price of the article?

A ₹2,400

B ₹2,500

C ₹2,200

D ₹2,300

Answer: B

Explanation:

Let the M.P of article be Rs x

According to the question,

$$x \times \frac{80}{100} \times \frac{84}{100} = 1680$$

$$x = 2500$$

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Question 52

If $\operatorname{cosec} \theta = \frac{13}{12}$, then $\sin \theta + \cos \theta - \tan \theta$ is equal to:

A $\frac{139}{65}$

B $\frac{91}{65}$

C $-\frac{71}{65}$

D $\frac{71}{65}$

Answer: C

Explanation:

$$\operatorname{cosec} \theta = \frac{H}{P} = \frac{13}{12}$$

H= 13, P= 12, B= 5 (We know that $\text{hypotenuse}^2 = \text{side}^2 + \text{side}^2$. So we will get B = 5)

$\sin \theta + \cos \theta - \tan \theta$

$$\frac{P}{H} + \frac{B}{H} - \frac{P}{B}$$

$$\frac{12}{13} + \frac{5}{13} - \frac{12}{5} = -\frac{71}{65}$$

Question 53

$\triangle ABC \sim \triangle PRQ$ and PQ = 4 cm, QR = 7 cm and PR = 8 cm. If $\operatorname{ar}(\triangle ABC) : \operatorname{ar}(\triangle PQR) = 1 : 4$, then AC is equal to:

A 2 cm

B 3.7 cm

C 4 cm

D 1 cm

Answer: A

Explanation:

If the two triangles are similar then,

$$\frac{(\text{area of } \triangle ABC)}{(\text{area of } \triangle PRQ)} = \frac{(AC)^2}{(PQ)^2}$$

$$\frac{1}{4} = \frac{(AC)^2}{16}$$

$$AC = 2$$

Question 54

The table below indicates the percentage of students and the ratio of boys and girls in the various streams of a college. (Total students = 2600)

| Stream | CE | CS | IT | ME | EC |
|--------------|------|------|------|------|------|
| %Students | 20% | 18% | 21% | 22% | 19% |
| Boys : Girls | 3:02 | 4:05 | 3:04 | 6:05 | 9:10 |

In which stream, is the difference in the percentage of boys and girls minimum?

- A ME
- B EC
- C CS
- D IT

Answer: B

Explanation:

| Stream | CE | CS | IT | ME | EC |
|--------------------------|----------|----------|----------|----------|----------|
| No. of students | 520 | 468 | 546 | 572 | 494 |
| Number of boys and girls | 312, 208 | 208, 260 | 234, 312 | 312, 260 | 234, 260 |

$$\text{Percentage of difference of girls and boys in CE} = \frac{(104 \times 100)}{312} = 33.33\%$$

$$\text{Percentage of difference of girls and boys in CS} = \frac{(52 \times 100)}{208} = 25\%$$

$$\text{Percentage of difference of girls and boys in CS} = \frac{(78 \times 100)}{234} = 33.33\%$$

$$\text{Percentage of difference of girls and boys in CS} = \frac{(52 \times 100)}{312} = 16.66\%$$

$$\text{Percentage of difference of girls and boys in CS} = \frac{(26 \times 100)}{234} = 11.11\%$$

So difference of boys and girls in EC is minimum.

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Question 55

If $a : b = 2 : 3$ and $c : b = 5 : 6$, then $a : b : c$ is equal to:

- A 10 : 15 : 18
- B 6 : 9 : 16
- C 4 : 6 : 5
- D 6 : 9 : 12

Answer: C

Explanation:

$$a:b:c = (a \times b) : (b \times b) : (b \times c)$$

$$= (2 \times 6) : (3 \times 6) : (3 \times 5)$$

$$= 12 : 18 : 15 = 4 : 6 : 5$$

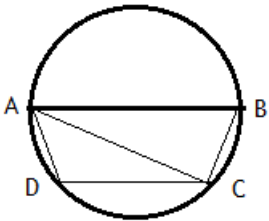
Question 56

In a circle with centre O, AB is the diameter and CD is a chord such that ABCD is a trapezium. If $\angle BAC = 18^\circ$, then $\angle CAD$ is equal to:

- A 18°
- B 72°
- C 36°
- D 54°

Answer: D

Explanation:



$$\angle BAC = 18$$

$$\angle ACB = 90 \text{ (Angle on semicircle)}$$

ABCD is a trapezium, so AB is parallel to CD

$$\angle ACD = \angle BAC = 18 \text{ (Alternate angle)}$$

$$\angle BCD = \angle ACB + \angle ACD = 90 + 18 = 108$$

ABCD is a cyclic quadrilateral because all points lie on the same circle

$$\angle BAD + \angle BCD = 180$$

$$\angle BAD + 108 = 180$$

$$\angle BAD = 72$$

$$\angle BAD = \angle BAC + \angle CAD$$

$$72 = 18 + \angle CAD$$

$$\angle CAD = 72 - 18 = 54$$

Question 57

If the six digit number $4x573y$ is divisible by 72 then the value of $(x + y)$ is:

- A 4
- B 6
- C 8
- D 9

Answer: C

Explanation:

$4x573y$ will be divisible by 72

to divide that no it should be divided by 9 and 8 both

1. for divisibility by 8 the last three digit will be divided by 8 the last digit is y so y will be 6
2. but for divisibility by 9 the sum of all digits divisible by 9
3. $y = 9$
4. Sum of digits = $4 + x + 5 + 7 + 3 + 6 = 25 + x$, so $x = 2$
5. $x+y = 6+2 = 8$

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Question 58

In $\triangle ABC$, AD is a median and is a point on AD such that $AP : PD = 3 : 4$. Then $\text{ar}(\triangle BPD) : \text{ar}(\triangle ABC)$ is equal to:

- A 2 : 7
- B 4 : 7
- C 2 : 5
- D 1 : 3

Answer: A

Question 59

A train without stoppage travels with an average speed of 72 km/h and with stoppage, it travels with an average speed of 60 km/h. For how many minutes does the train stop on an average per hour?

- A 10
- B 6
- C 12
- D 8

Answer: A

Explanation:

Speed with stoppages = 60 kmph

Speed without stoppages = 72 kmph

Let the distance be L.C.M of 72 and 60 = 360 km

Time taken to travel 360 km with stoppages = $\frac{360}{60} = 6 \text{ hours}$

Time taken to travel 360 km without stoppages = $\frac{360}{72} = 5 \text{ hours}$

Means in the trip of 6 hours, 1 hours spend on stoppages

So, duration of stoppages average per hour = $\frac{1}{6} \times 60 = 10 \text{ min s}$

Question 60

The value of $\cot^2 62^\circ - \sec^2 28^\circ + \operatorname{cosec}^2 30^\circ + \tan^2 60^\circ$ is equal to:

- A $\frac{16}{3}$
- B 8
- C $\frac{10}{3}$

D 6

Answer: D

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Question 61

In a class of 40 students, 45% are girls and the remaining are boys. If the average of the girls' marks is 54 and that of the boys is 46, what is the average of the whole class?

A 49.6

B 49.7

C 49.8

D 49.5

Answer: A

Explanation:

Number of girls = 45% of 40 = 18 and boys = 40 - 18 = 22

$$\text{Average of whole class} = \frac{(18 \times 54 + 22 \times 46)}{40} = 49.6$$

Question 62

The difference between the compound interest and simple interest on ₹x at 7.5% per annum for 2 years is ₹45. What is the value of x?

A 9,000

B 7,000

C 10,000

D 8,000

Answer: D

Explanation:

$$\text{C.I.} - \text{S.I. for 2 years} = \frac{PR^2}{100^2}$$

$$45 = \frac{P(7.5)^2}{100^2}$$

$$45 = \frac{(P \times 56.25)}{100 \times 100}$$

$$1 = \frac{P}{100 \times 80}$$

$$P = \text{Rs } 8000$$

Question 63

Two articles are sold for ₹5,104 each. On one, the seller gains 16% and on the other, he loses 12%. What is his overall gain percent, nearest to two decimal places?

A 0.10%

B 0.08%

C 0.12%

D 0.14%

Answer: B

Explanation:

S.P of 1st article = 5104, P= 16%

C.P of 1st article = $5104 \times \frac{100}{116} = 4400$

S.P of 2nd article = 5104, L=12%

C.P of 2nd article = $5104 \times \frac{100}{88} = 5800$

Total C.P = $4400+5800= 10200$

Total S.P = $5104+5104 = 10208$

Overall profit = $10208 - 10200 = 8$

Overall profit% = $\frac{(8 \times 100)}{10200} = 0.078 = 0.08\%$

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Question 64

Two chords AB and CD of a circle when produced, meet at a point P outside the circle. If AB = 6 cm, PB = 5 cm, PD = 4 cm, then CD is equal to:

A 7.5 cm

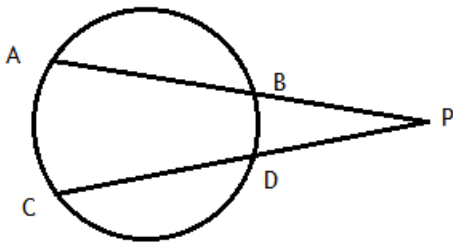
B 8.25 cm

C 9.75 cm

D 7.75 cm

Answer: C

Explanation:



Two chords AB and CD of a circle when produced, meet at a point P outside the circle then

$$PA \times PB = PC \times PD$$

$$PA=11, PC=(x+4)$$

$$11 \times 5 = (x + 4) \times 4$$

$$55 = 4x + 16$$

$$4x = 39$$

$$x = 9.75$$

Question 65

The radii of the two circular faces of the frustum of a cone are 5 cm and 4 cm. If the height of the frustum is 21 cm, what is its volume in cm^3 ?

$$\left(\pi = \frac{22}{7}\right)$$

- A 902
- B 638
- C 1056
- D 1342

Answer: D

Explanation:

$$\begin{aligned}
 \text{Volume of frustum of cone} &= \frac{1}{3} \times \pi \times h \times (r_1^2 + r_2^2 + (r_1 \times r_2)) \\
 &= \frac{1}{3} \times \frac{22}{7} \times 21 \times (5^2 + 4^2 + (5 \times 4)) \\
 &= 22 \times (25 + 16 + (5 \times 4)) \\
 &= 22 \times (41 + 20) \\
 &= 22 \times 61 = 1342
 \end{aligned}$$

Question 66

If $(a+b) = 6$ and $ab = \frac{16}{3}$, then $(a^3 + b^3)$ is equal to:

- A 120
- B 190
- C 220
- D 150

Answer: A

Explanation:

$$(a+b) = 6$$

Cubing both side,

$$(a + b)^3 = 6^3$$

$$a^3 + b^3 + 3ab(a + b) = 216$$

$$a^3 + b^3 + 3 \times \frac{16}{3} \times 6 = 216$$

$$a^3 + b^3 = 216 - 96 = 120$$

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Question 67

A is 40% more efficient than B and C is 20% less efficient than B. Working together, they can complete a task in 20 hours. In how many hours will A alone complete 35% of that task?

- A 14
- B 15
- C 13
- D 16

Answer: D

Explanation:

Let efficiency of B 10,

Efficiency of A = 40% of B = 14

Efficiency of C = 80% of B = 8

Now total work = total efficiency

$$\times \text{total day} (14 + 10 + 8) \times 20 = 640$$

$$\text{Time taken by A alone to complete 35\% of work} = 640 \times \frac{35}{100} \times \frac{1}{14} = 16$$

Question 68

The table below indicates the percentage of students and the ratio of boys and girls in the various streams of a college. (Total students = 2600)

| Stream | CE | CS | IT | ME | EC |
|--------------|------|------|------|------|------|
| %Students | 20% | 18% | 21% | 22% | 19% |
| Boys : Girls | 3:02 | 4:05 | 3:04 | 6:05 | 9:10 |

If the data about the number of girls enrolled in the various streams is represented by a pie-chart, what is the central angle of the sector representing the number of girls in the ME stream, to the nearest whole degree?

A 72°

B 70°

C 74°

D 68°

Answer: A

Explanation:

| Stream | CE | CS | IT | ME | EC |
|--------------------------|----------|----------|----------|----------|----------|
| No. of students | 520 | 468 | 546 | 572 | 494 |
| Number of boys and girls | 312, 208 | 208, 260 | 234, 312 | 312, 260 | 234, 260 |

1% = 3.6 degree

$$\text{Central angle of Girl in ME stream} = \frac{260}{1300} \times 100 \times 3.6 = 72^\circ$$

Question 69

If $a + b + c = 6$ and $ab + bc + ca = 4$, then $a^3 + b^3 + c^3 - 3abc$ is equal to:

A 154

B 144

C 148

D 160

Answer: B

Explanation:

$$(a + b + c) = 6$$

Squaring both side,

$$(a + b + c)^2 = 6^2$$

$$a^2 + b^2 + c^2 + 2(ab + bc + ac) = 36$$

$$a^2 + b^2 + c^2 + 2(4) = 36$$

$$a^2 + b^2 + c^2 = 28$$

Now,

$$\begin{aligned} a^3 + b^3 + c^3 - 3abc &= (a + b + c)(a^2 + b^2 + c^2 - (ab + bc + ac)) \\ &= 6(28 - 4) = 144 \end{aligned}$$

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Question 70

The price of sugar is increased by 17%. A person wants to increase his expenditure by 8% only. By what percent should he decrease his consumption, nearest to one decimal place?

- A 7.9%
- B 8.1%
- C 8.3%
- D 7.7%

Answer: D

Explanation:

Let man have Rs 100 for 100 kg of sugar

Now price 17% increased

New price for 100 kg sugar is Rs 117

Man have increased his expenditure of sugar by 8%

Rs 117 = 100 kg

$$\text{Rs } 108 = \frac{(108 \times 100)}{117} = 92.3$$

So he have to reduced his consumption by = $100 - 92.3 = 7.7\%$

Question 71

If $\sqrt{x} - \frac{1}{\sqrt{x}} = \sqrt{6}$, then $x^2 + \frac{1}{x^2}$ is equal to:

- A 54
- B 62
- C 66
- D 40

Answer: B

Explanation:

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

Squaring both side,

$$(\sqrt{x})^2 + \left(\frac{1}{\sqrt{x}}\right)^2 - 2 = (\sqrt{6})^2$$

$$x + \frac{1}{x} - 2 = 6$$

$$x + \frac{1}{x} = 8$$

Again squaring both side,

$$\left(x + \frac{1}{x}\right)^2 = 8^2$$

$$\left(x^2 + \frac{1}{x^2} + 2 = 64\right)$$

$$\left(x^2 + \frac{1}{x^2} = 62\right)$$

Question 72

The value of: $7.2 + (8.4 \div 0.12 \times 0.2) - 5 \times 180 \div 3 + 3$

A -275.8

B -75.8

C 21.2

D -175.8

Answer: A

Explanation:

$$7.2 + (8.4 \div 0.12 \times 0.2) - 5 \times 180 \div 3 + 3$$

$$7.2 + 14 - 300 + 3$$

$$24.2 - 300 = -275.8$$

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Question 73

If $\sin \theta = \cos(50^\circ + \theta)$, then θ is equal to:

A 20°

B 35°

C 25°

D 30°

Answer: A

Explanation:

$$\sin \theta = \cos(50^\circ + \theta)$$

$$\cos(90^\circ - \theta) = \cos(50^\circ + \theta)$$

$$90^\circ - \theta = 50^\circ + \theta$$

$$2\theta = 40^\circ$$

$$\theta = 20^\circ$$

Instructions

The table below indicates the percentage of students and the ratio of boys and girls in the various streams of a college. (Total students = 2600)

| Stream | CE | CS | IT | ME | EC |
|--------------|------|------|------|------|------|
| %Students | 20% | 18% | 21% | 22% | 19% |
| Boys : Girls | 3:02 | 4:05 | 3:04 | 6:05 | 9:10 |

Question 74

What is the ratio of boys and girls in the college?

- A 1 : 1
- B 6 : 7
- C 5 : 6
- D 7 : 8

Answer: A

Explanation:

| Stream | CE | CS | IT | ME | EC |
|--------------------------|----------|----------|----------|----------|----------|
| No. of students | 520 | 468 | 546 | 572 | 494 |
| Number of boys and girls | 312, 208 | 208, 260 | 234, 312 | 312, 260 | 234, 260 |

Total boys = $312+208+234+312+234=1300$ so, Total girls = $2600-1300=1300$

Required ratio = $1300 : 1300 = 1 : 1$.

Question 75

What is the ratio of students studying in CS and IT?

- A 12 : 13
- B 6 : 7
- C 9 : 11
- D 11 : 13

Answer: B

Explanation:

| Stream | CE | CS | IT | ME | EC |
|--------------------------|----------|----------|----------|----------|----------|
| No. of students | 520 | 468 | 546 | 572 | 494 |
| Number of boys and girls | 312, 208 | 208, 260 | 234, 312 | 312, 260 | 234, 260 |

Required ratio = $468 : 546 = 18 : 21 = 6 : 7$

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English

Instructions

For the following questions answer them individually

Question 76

Select the most appropriate option to substitute the underlined segment in the given sentence. If no substitution is required, select No improvement.

The big farmers with deepest tubewells still have water, but many others face a water crisis.

- A in deep tubewells
- B No improvement
- C through deepest tubewells
- D with deeper tubewells

Answer: D

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Question 77

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

A place for storing guns and military equipment

- A aviary
- B archive
- C arsenal
- D apiary

Answer: C

Question 78

Select the correctly spelt word.

- A affliction
- B exhibition
- C tution
- D voilation

Answer: B

Question 79

Select the most appropriate antonym of the given word.

CRUCIAL

- A imperative
- B pivotal
- C critical
- D trivial

Answer: D

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Question 80

Given below are four jumbled sentences. Select the option that gives their correct order.

- A. But the rest of the students were rushing past her for a break, like she didn't exist.
- B. She slowly pushed open the library door and took a seat at one of the tables in the corner.
- C. And today, Jessica really felt like maybe she didn't exist.
- D. When the bell rang for lunch, Jessica took her lunch box and started moving towards the library.

- A BDCA
- B DACB
- C DBCA
- D CADB

Answer: B

Question 81

Select the most appropriate option to fill in the blank.
The ship sailed smoothly owing to _____ winds.

- A tempestuous
- B favourable
- C turbulent
- D boisterous

Answer: B

Question 82

Given below are four jumbled sentences. Select the option that gives their correct order.

- A. Then, they spread as the unmined coal starts burning with oxygen drawn from pores and mine shafts.
- B. An entire township- Jharia is to be relocated because of the uncontrollable underground fires.
- C. These fires start mostly from burning trash close to coal pits.
- D. This is a grave threat as poisonous fumes of carbon monoxide rise up from underground fires.

- A CDAB
- B BDAC
- C BCAD
- D DCAB

Answer: C

Question 83

Select the correctly spelt word.

- A desperete

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- B desparate
- C disparat
- D desperate

Answer: D

Question 84

Select the most appropriate synonym of the given word.

TACITURN

- A reticent
- B phlegmatic
- C placid
- D talkative

Answer: A

Question 85

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

The length of a male swallow's tail reveal his attractiveness for a female swallow.

- A a female swallow
- B a male swallow's tail reveal
- C The length of
- D his attractiveness for

Answer: B

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Question 86

Select the most appropriate synonym of the given word.

MAMMOTH

- A miniscule
- B magnificent
- C gigantic
- D perilous

Answer: C

Question 87

Select the most appropriate meaning of the underlined idiom in the given sentence.

The boss is going to blow his top when he discovers the blatant mistake in the balance sheet.

- A attack fiercely

- B be very embarrassed
- C be very angry
- D dismiss from job

Answer: C

Question 88

Select the correct active form of the given sentence.

Heavy taxes have been imposed on luxury items by the government.

- A The government is imposing heavy taxes on luxury items.
- B The government has imposed heavy taxes on luxury items.
- C The government imposed heavy taxes on luxury items.
- D The government had imposed heavy taxes on luxury items.

Answer: B

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Question 89

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

My father dissuaded me to try for a job as he wanted me to pursue higher studies.

- A My father dissuaded me
- B to pursue higher studies
- C to try for a job
- D as he wanted me

Answer: C

Question 90

Select the most appropriate meaning of the underlined idiom in the given sentence.

A mountaineer has to walk the tight rope as a small slip can prove to be fatal.

- A be very cautious
- B be very nervous
- C be an expert
- D be well trained

Answer: A

Question 91

Select the most appropriate option to substitute the underlined segment in the given sentence. If no substitution is required, select No improvement.

Some agitating miners allegation that there is no emergency measures inside the mines.

- A No improvement

- B miners alleged that there were
- C miners' allege that there is
- D miner's allegation that there are

Answer: B

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Question 92

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

A place where fruit trees are grown

- A orchard
- B garden
- C plantation
- D farm

Answer: A

Question 93

Select the correct passive form of the given sentence.

She never trusted anyone.

- A No one was ever trusted by her
- B Anyone is not trusted by her.
- C Her trust was never for anyone.
- D She was never trusted by anyone.

Answer: A

Instructions

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

Comprehension:

Ironically, the dams that were constructed to (1)_____ floods have triggered floods due to sedimentation in the reservoir. The (2)_____ of water from dams during heavy rains aggravated- the flood situation (3)_____ Maharashtra and Gujarat in 2006. The floods (4)_____ not only life and property but also caused soil erosion. Sedimentation (5)_____ the plains of silt, a natural fertilizer.

Question 94

Select the most appropriate option to fill in blank No.1

- A dominate
- B resist
- C reduce
- D control

Answer: D

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Question 95

Select the most appropriate option to fill in blank No.2

- A restraint
- B liberation
- C collection
- D release

Answer: D

Question 96

Select the most appropriate option to fill in blank No.3

- A along
- B among
- C through
- D In

Answer: D

Question 97

Select the most appropriate option to fill in blank No.4

- A devastated
- B plundered
- C smashed
- D devoured

Answer: A

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Question 98

Select the most appropriate option to fill in blank No.5

- A deprived
- B destroyed
- C disabled
- D distributed

Answer: A

Instructions

For the following questions answer them individually

Question 99

Select the most appropriate antonym of the given word.

COVETOUS

- A benevolent
- B mercenary
- C avaricious
- D acquisitive

Answer: A

Question 100

Select the most appropriate option to fill in the blank.

A _____ speech is certainly more effective than one which is verbose.

- A laconic
- B sullen
- C lengthy
- D surly

Answer: A

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