



SSC CHSL 25 Jan 2017 Afternoon Shift

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Instructions

For the following questions answer them individually

Question 1

In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase. **at the drop of a hat**

- A to challenge someone
- B to give up very easily
- C to pick a fight for small reasons
- D without hesitation or good reason

Answer: D

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Question 2

Rearrange the parts of the sentence in correct order.

- There must be more oversight
- P-which this is done
- Q-and much more accountability
- R-in the manner in

- A RQP
- B QRP
- C PRQ
- D PQR

Answer: B

Question 3

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'.

Sorry to have(A)/troubled you; since(B)/it couldn't be helped.(C)/No error(D)

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

Answer: B

Question 4

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

Rohit said, "Leela, when is the next bus?"

- A Rohit asked Leela when the next bus was supposed to come.

- B Rohit asked Leela when was the next bus coming.
- C Rohit asked Leela when the next bus was.
- D Rohit asked Leela when the next bus was coming.

Answer: C

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Question 5

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

- A every thing looks enticing to a hungry person
- B a very pleasant thing to watch
- C someone that one cherishes above all others
- D the ugliest child is still pretty for a mother

Answer: C

Question 6

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'.
Could you(A)/like to read(B)/his speech?(C)/No error(D)

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

Answer: C

Question 7

Select the antonym of **atheist**

- A skeptic
- B pagan
- C disciple
- D agnostic

Answer: C

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Question 8

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.

It was hard tohim involved with anything illegal.

- A snap
- B draw
- C photo
- D picture

Answer: D

Question 9

Select the word with the correct spelling.

- A cabinets
- B basoons
- C sprinkle
- D esposes

Answer: A

Question 10

In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase. To proclaim widely or loudly.

- A to trumpet
- B to herald
- C to manifest
- D to blazon

Answer: A

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Question 11

Select the word with the correct spelling.

- A rosetes
- B reaffirm
- C estimat
- D lunchon

Answer: B

Question 12

Select the synonym of
ominous

- A secure
- B auspicious
- C apocalyptic
- D propitious

Answer: C

Question 13

In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase.
A substance that has no therapeutic effect, used as a control in testing new drugs.

- A sedentary
- B placebo
- C lax
- D torpid

Answer: B

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Question 14

Rearrange the parts of the sentence in correct order.

This is where clear,
P-well-publicized editorial guidelines are
Q-precisely formulated, and
R-badly needed in Indian newsrooms

- A QPR
- B RQP
- C PQR
- D PRQ

Answer: A

Question 15

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 officer walked in front, leaning on a stick andlimping.

- A marginally
- B imperceptibly
- C slightly

D a little

Answer: C

Question 16

Improve the bracketed part of the sentence.

The driver gave (advice) at the court during the murder trial.

A evidence

B proof

C witness

D no improvement

Answer: A

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Question 17

Improve the bracketed part of the sentence. You can always count (at me) in difficult times.

A upon me

B on me

C on I

D no improvement

Answer: B

Question 18

Select the antonym of
to scowl

A to glower

B to smirk

C to grimace

D to grin

Answer: D

Question 19

Select the synonym of
repentance

A intransigent

B obdurate

C resolute

D remorse

Answer: D

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Question 20

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

The baby really enjoys that music.

- A That music was really enjoyed by the baby.
- B That music was really being enjoyed by the baby.
- C That music is really enjoyed by the baby.
- D This music was really enjoyed by the baby.

Answer: C

Explanation:

Start Group:

Question 21

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.

Worldwide, journalism and the news industry are struggling, in this digital age, to(1).....their relevance and value under profoundly changed and(2).....circumstances. In response(3).....the challenge, a new view is forming within the profession that one way to ensure that the activities that(4).....journalism will continue to matter is to hone, strengthen, and develop its professional capabilities to perform certain(5).....tasks.

Worldwide, journalism and the news industry are struggling, in this digital age, to(6).....

- A veto
- B reassert
- C withhold
- D renounce

Answer: B

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.

There _____ three components to the UGC's package governing the faculty. Of these, mostly two have proved to be _____ of contention between the two parties. These have to do with the _____ workload for teachers and student evaluation of courses, including _____ the lecturer herself. But it is the third component that needs to be _____ for its suitability. There _____ three components to the UGC's package governing the faculty.

Question 22

1

- A stagnant
- B plethora of
- C variety

D changing

Answer: D

Question 23

2

A to

B of

C for

D about

Answer: A

Question 24

3

A make

B manufacture

C constitute

D collect

Answer: C

Question 25

4

A trivial

B core

C trite

D frivolous

Answer: B

Explanation:

End Group:

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Mathematics

Instructions

For the following questions answer them individually

Question 26

If $\operatorname{cosec} 135^\circ = x$, then the value of x is

- A $\sqrt{2}$
- B 2
- C $-\sqrt{2}$
- D $1/\sqrt{3}$

Answer: A

Explanation:

Expression : $\operatorname{cosec} 135^\circ = x$

$$= \operatorname{cosec}(180^\circ - 45^\circ) = \operatorname{cosec} 45^\circ$$

$$= \sqrt{2}$$

=> Ans - (A)

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Question 27

If $4(x + 1) - 3 < 3 - x < 2x + 5$; then the value of x is

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

Answer: B

Explanation:

Expression 1 : $3 - x < 2x + 5$

$$\Rightarrow 2x + x > 3 - 5$$

$$\Rightarrow x > \frac{-2}{3} \text{ -----(i)}$$

Expression 2 : $4(x + 1) - 3 < 3 - x$

$$\Rightarrow 4x + 1 < 3 - x$$

$$\Rightarrow 4x + x < 3 - 1$$

$$\Rightarrow x < \frac{2}{5} \text{ -----(ii)}$$

Combining inequalities (i) and (ii), we get : $\frac{-2}{3} < x < \frac{2}{5}$

Thus, only value that x can take among the options = 0

=> Ans - (B)

Question 28

A cone is hollowed out of a solid wooden cube of side 7 cm. The diameter and height of the cone is same as the side of the cube. What is the volume of the remaining cube?

- A 253.17 cubic cms
- B 228.84 cubic cms
- C 143.26 cubic cms

D 257.68 cubic cms

Answer: A

Explanation:

Side of cube = 7 cm

Height of cone = 7 cm and radius of cone = 2 cm

Volume of remaining cube = Volume of cube - Volume of cone

$$= (a)^3 - \frac{1}{3}\pi r^2 h$$

$$= (7)^3 - \frac{1}{3} \times \frac{22}{7} \times (2)^2 \times 7$$

$$= (7)^3 \times \left[1 - \left(\frac{1}{3} \times \frac{11}{7 \times 2}\right)\right]$$

$$= (7)^3 \times \left[1 - \frac{11}{42}\right]$$

$$= 343 \times \left(\frac{42-11}{42}\right)$$

$$= \frac{49 \times 31}{6} = 253.17 \text{ cm}^3$$

Question 29

Of the 3 numbers whose average is 72, the first is $\frac{2}{7}$ times the sum of other 2. The first number is

A 48

B 72

C 32

D 96

Answer: A

Explanation:

Let the three numbers be x, y, z

Sum of three numbers = $x + y + z = 72 \times 3 = 216$

According to ques, $\Rightarrow x = \frac{2}{7} \times (y + z)$

$$\Rightarrow x = \frac{2}{7} \times (216 - x)$$

$$\Rightarrow 7x = 432 - 2x$$

$$\Rightarrow 7x + 2x = 9x = 432$$

$$\Rightarrow x = \frac{432}{9} = 48$$

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Question 30

If $\sqrt{1 + \cot^2 A} = x$, then the value of x is

A secA

B sinA

C cosecA

D cosA

Answer: C

Explanation:

Expression : $\sqrt{1 + \cot^2 A}$

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

$= \sqrt{\operatorname{cosec}^2 A}$

$= \operatorname{cosec} A$

=> Ans - (C)

Question 31

What is the value of $\tan^4 A + \tan^2 A$?

A $\sec^4 A - \sec^2 A$

B $\sec^4 A + \sec^2 A$

C $\operatorname{cosec}^4 A - \sec^2 A$

D $\sec^4 A + \operatorname{cosec}^2 A$

Answer: A

Explanation:

Expression : $\tan^4 A + \tan^2 A$

$= \tan^2 A(\tan^2 A + 1)$

Using $(\sec^2 A - \tan^2 A) = 1$

$= (\sec^2 A - 1)\sec^2 A$

$= \sec^4 A - \sec^2 A$

Question 32

The point R(a,b) is first reflected in origin to R1 and R1 is reflected in x-axis to (-3,4). The co-ordinates of point R are

A (3,4)

B (-3,-4)

C (-3,4)

D (3,-4)

Answer: A

Explanation:

R(a,b) after reflection at the origin = (-a,-b)

Reflection of point (-a,-b) in the x-axis is (-a,b)

According to ques,

=> $(-a, b) = (-3, 4)$

=> $-a = -3$ and $b = 4$

∴ Coordinates of Point R = (3,4)

=> Ans - (A)

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Question 33

Expand and simplify $(x + 5)^2 + (x - 3)^2$

- A $2(x^2 + 2x - 17)$
- B $2(x^2 - 2x + 17)$
- C $2(x^2 - 2x - 17)$
- D $2(x^2 + 2x + 17)$

Answer: D

Explanation:

Expression : $(x + 5)^2 + (x - 3)^2$
 $= (x^2 + 10x + 25) + (x^2 - 6x + 9)$
 $= 2x^2 + 4x + 34$
 $= 2(x^2 + 2x + 17)$

Question 34

The simplest form of $3565/1495$ is

- A $31/13$
- B $43/19$
- C $23/13$
- D $31/23$

Answer: A

Explanation:

Expression : $\frac{3565}{1495}$

Both are multiples of 5, thus dividing numerator and denominator by 5

$$= \frac{713}{299}$$

Now, dividing by 23, $= \frac{31}{13}$

=> Ans - (A)

Question 35

When a number is increased by 42, it becomes 121% of itself. What is the number?

- A 504
- B 200
- C 630
- D 378

Answer: B

Explanation:

Let the number be $100x$

According to ques, $\Rightarrow 100x + 42 = \frac{121}{100} \times 100x$

$$\Rightarrow 100x + 42 = 121x$$

$$\Rightarrow 121x - 100x = 42$$

$$\Rightarrow x = \frac{42}{21} = 2$$

$$\therefore \text{Number} = 100 \times 2 = 200$$

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Question 36

Rizvan walks at 15 km/hr and Ruchitha cycles at 20 km/hr towards each other. What was the distance between them when they started if they meet after 42 minutes?

A 36.8 kms

B 30.6 kms

C 24.5 kms

D 18.4 kms

Answer: C

Explanation:

Speed of Rizvan = 15 km/hr and Ruchitha = 20 km/hr

Since they are moving in opposite direction, \Rightarrow Relative speed = $20 + 15 = 35$ km/hr

Let distance between them = d km and time = $\frac{42}{60}$ hr

\Rightarrow time = distance/speed

$$\Rightarrow \frac{d}{35} = \frac{42}{60}$$

$$\Rightarrow d = \frac{42}{60} \times 35 = \frac{7 \times 7}{2}$$

$$\Rightarrow d = \frac{49}{2} = 24.5 \text{ km}$$

Question 37

The third proportional of two numbers 7 and 21 is

A 35

B 63

C 42

D 21

Answer: B

Explanation:

Three numbers a,b,c are in proportion iff $b^2 = ac$

Here, a = 7 and b = 21

$$\Rightarrow (21)^2 = 7 \times c$$

$$\Rightarrow c = \frac{21 \times 21}{7} = 3 \times 21$$

$$\Rightarrow c = 63$$

Question 38

30% discount is offered on an item. By applying a promo code the customer wins 5% cash back. What is the effective discount?

- A 33.5 percent
- B 35.175 percent
- C 35 percent
- D 6.5 percent

Answer: A

Explanation:

Let the marked price of item = Rs. $100x$

$$\begin{aligned} \text{Amount after 30 \% discount} &= 100x - \frac{30}{100} \times 100x \\ &= 100x - 30x = \text{Rs. } 70x \end{aligned}$$

$$\begin{aligned} \text{Selling price after 5 \% cashback} &= 70x - \frac{5}{100} \times 70x \\ &= 70x - 3.5x = \text{Rs. } 66.5x \end{aligned}$$

$$\Rightarrow \text{Total discounted amount} = 100x - 66.5x = \text{Rs. } 33.5x$$

$$\therefore \text{Effective discount} = \frac{33.5x}{100x} \times 100 = 33.5\%$$

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Question 39

A sum fetched a total simple interest of Rs. 7056 at the rate of 8 percent per year in 7 years. What is the sum?

- A Rs 12600
- B Rs 15120
- C Rs 10080
- D Rs 7560

Answer: A

Explanation:

Let the sum = Rs. x

Rate of interest = 8% and time = 7 years

$$\text{Simple interest} = \frac{P \times R \times T}{100}$$

$$\Rightarrow \frac{x \times 8 \times 7}{100} = 7056$$

$$\Rightarrow x = 7056 \times \frac{25}{14}$$

$$\Rightarrow x = 504 \times 25 = \text{Rs. } 12,600$$

Question 40

A mason can build a wall in 18 hours. After 9 hours he takes a break. What fraction of the wall is yet to be built?

- A 0.9
- B 0.25
- C 0.5
- D 0.2

Answer: C

Explanation:

Let total work to be done = 18 units

Mason's efficiency = $\frac{18}{18} = 1$ unit/hr

Work done by the mason in 9 hours = $9 \times 1 = 9$ units

=> Work left = $18 - 9 = 9$ units

∴ Fraction of work that is left = $\frac{9}{18} = \frac{1}{2}$

= 0.5

Question 41

For triangle ABC, find equation of median AD if co-ordinates of A, B and C are (-1,-3), (5,-4) and (3,2) respectively?

A $2x - 5y = 17$

B $2x - 5y = 13$

C $2x + 5y = 13$

D $2x + 5y = 17$

Answer: B

Explanation:

Coordinates of the triangle A (-1,-3), B (5,-4) and C (3,2)

D is the mid point of BC, => Coordinates of point D = $\left(\frac{5+3}{2}, \frac{-4+2}{2}\right)$

=> D = (4, -1)

Now, equation of line AD = $(y + 3) = \frac{(-1+3)}{(4+1)}(x + 1)$

=> $(y + 3) = \frac{2}{5}(x + 1)$

=> $5y + 15 = 2x + 2$

=> $2x - 5y = 13$

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Question 42

A shopkeeper by selling 8 iphones, earns a profit equal to the selling price of 3 iphones. His profit percentage is

A 60 percent

B 37.5 percent

C 75 percent

D 15 percent

Answer: A

Explanation:

Let Cost price of 1 iphone = Rs. x

Let Selling price of 1 iphone = Rs. y

Profit of 8 iphones = Rs. $8(y - x)$

According to ques, => $8(y - x) = 3y$

$$\Rightarrow 8y - 8x = 3y$$

$$\Rightarrow 8x = 8y - 3y = 5y$$

$$\Rightarrow \frac{y}{x} = \frac{8}{5}$$

$$\therefore \text{Profit \%} = \frac{y-x}{x} \times 100$$

$$= \frac{3}{5} \times 100 = 60\%$$

Question 43

If $a + b = 10$ and $ab = 24$, then the value of $a^3 + b^3$ is

A 280

B 370

C 520

D 730

Answer: A

Explanation:

$$\text{Equation 1 : } a + b = 10$$

$$\Rightarrow a = 10 - b$$

$$\text{Equation 2 : } a \times b = 24$$

Substituting value of 'a' in equation 2, we get :

$$\Rightarrow (10 - b)b = 24$$

$$\Rightarrow 10b - b^2 = 24$$

$$\Rightarrow b^2 - 10b + 24 = 0$$

$$\Rightarrow b^2 - 4b - 6b + 24 = 0$$

$$\Rightarrow b(b - 4) - 6(b - 4) = 0$$

$$\Rightarrow (b - 4)(b - 6) = 0$$

$$\Rightarrow b = 4, 6$$

$$\Rightarrow a = 6, 4$$

$$\therefore a^3 + b^3 = (4)^3 + (6)^3$$

$$= 64 + 216 = 280$$

Question 44

An angle is greater than its complementary angle by 40° . Find the measure of the angle?

A 25°

B 65°

C 130°

D 50°

Answer: B

Explanation:

Let the angle = θ

Its complementary angle = $(\theta - 40^\circ)$

Sum of an angle and its complementary angle = 90°

$$\Rightarrow \theta + (\theta - 40^\circ) = 90^\circ$$

$$\Rightarrow 2\theta = 90^\circ + 40^\circ = 130^\circ$$

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

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Question 45

In a rhombus

- A opposite angles are supplementary
- B diagonals form two congruent triangles
- C diagonals are congruent
- D diagonals do not bisect opposite angles

Answer: B

Explanation:

In a rhombus, all sides are equal and opposite sides are parallel, thus there will be two pairs of alternate interior angles.

Also, both the diagonals will have vertically opposite angles between them which are equal.

Thus, Diagonals form two congruent triangles (by AAA criteria)

\Rightarrow Ans - (B)

Question 46

The sum of thrice a number and twice its reciprocal is $\frac{97}{4}$. What is the number?

- A 9
- B 10
- C 8
- D 7

Answer: C

Explanation:

Let the number be x

According to ques, $\Rightarrow (3x + \frac{2}{x}) = \frac{97}{4}$

$$\Rightarrow \frac{3x^2 + 2}{x} = \frac{97}{4}$$

$$\Rightarrow 12x^2 + 8 = 97x$$

$$\Rightarrow 12x^2 - 97x + 8 = 0$$

$$\Rightarrow 12x^2 - 96x - x + 8 = 0$$

$$\Rightarrow 12x(x - 8) - 1(x - 8) = 0$$

$$\Rightarrow (12x - 1)(x - 8) = 0$$

$$\Rightarrow x = \frac{1}{12}, 8$$

\therefore The number is 8

Question 47

Read the data and answer the given data ?

	No of Employees	Annual salary in lakhs	Bonus Percent of salary
Manager	2	30	40%
Executive	12	8	20%
Trainee	1	4	10%

What is the average bonus in rupees?

- A 4360005
- B 280000
- C 290667
- D 140000

Answer: C

Explanation:

Total bonus of managers (in lakh) = $2 \times 30 \times \frac{40}{100} = 24$ lakhs

Total bonus of executive (in lakh) = $12 \times 8 \times \frac{20}{100} = 19.2$ lakhs

Total bonus of trainee (in lakh) = $1 \times 4 \times \frac{10}{100} = 0.4$ lakhs

=> Average bonus in rupees = $\frac{(24+19.2+0.4)}{(2+12+1)}$

= $\frac{43.6}{15} = 2.90667$ lakhs = 2,90,667

=> Ans - (C)

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Question 48

Read the data and answer the given questions

	2011	2012	2013	2014	2015
Company A	1000	1000	1000	3000	1000
Company B	5000	1000	3000	2000	4000
Company C	1000	3000	2000	4000	4000

For which of the following pairs of years the total exports from the three Companies together are equal? (Note: Figures given are in lakh rupees)

- A 2011 & 2013
- B 2013 & 2015
- C 2011 & 2012
- D 2014 & 2015

Answer: D

Explanation:

Total exports from the three companies together in :

2011 = 1000 + 5000 + 1000 = 7000

2012 = 1000 + 1000 + 3000 = 5000

2013 = 1000 + 3000 + 2000 = 6000

$$2014 = 3000 + 2000 + 4000 = 9000$$

$$2015 = 1000 + 4000 + 4000 = 9000$$

Clearly, total exports in 2014 and 2015 are equal to 9000

=> Ans - (D)

Question 49

Read the given data and answer the questions ?

Years	Profit or (-loss)in crores
2011	10
2012	-25
2013	20
2014	-20
2015	25

What was the total profit or loss in last 5 years?

- A Profit of Rs 10 crores
- B Profit of Rs 20 crores
- C Loss of Rs 10 crores
- D Loss of Rs 20 crores

Answer: A

Explanation:

Total profit or loss in Rs. crore in last 5 years

$$= 10 - 25 + 20 - 20 + 25$$

$$= 10$$

Since, it is positive, thus profit of Rs. 10 crore

=> Ans - (A)

Question 50

Read the given data and answer the questions

India's Exports in 2015	Value in Million US \$
Jewellery	625
Softyware	550
Cotton	850
Steel	850
Electronics	525

Jewellery what percent of the total exports ?

- A 20.88 percent
- B 18.38 percent
- C 23.38 percent
- D 15.88 percent

Answer: B

Explanation:

Value in millions of Jewellery = 625

$$\text{Total exports} = 625 + 550 + 850 + 850 + 525 = 3400$$

$$\Rightarrow \% \text{ of Jewelry in total exports} = \frac{625}{3400} \times 100$$

$$= \frac{625}{34} = 18.382 \approx 18.38\%$$

\Rightarrow Ans - (B)

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Reasoning

Instructions

For the following questions answer them individually

Question 51

Select the related word/letters/number from the given alternatives.

Screw Gauge : Thickness :: Sphygmomanometer : ?

A Blood pressure

B Haemoglobin

C Keratin

D Insulin

Answer: A

Explanation:

The screw gauge is an instrument used for measuring the thickness of a sheet of metal, similarly Sphygmomanometer is an instrument for measuring *blood pressure*.

\Rightarrow Ans - (A)

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Question 52

Select the related word/letters/number from the given alternatives.

ENLARGE : EGRALNE :: ? : RETOOC

A TERCSOO

B SCOOTER

C SCOTTER

D REOOTCS

Answer: B

Explanation:

Expression = ENLARGE : EGRALNE :: ? : RETOOC

The pattern followed is that the word is written in *reverse* order, i.e. first letter at last position, second at second last and so on.

Similarly, reverse of **SCOOTER** : RETOOC

\Rightarrow Ans - (B)

Question 53

Select the related word/letters/number from the given alternatives.

FG : 67 :: UV : ?

- A 1926
- B 2021
- C 2122
- D 2621

Answer: C

Explanation:

Expression = FG : 67 :: UV : ?

The pattern followed is that the numerical value of the alphabets is concatenated.

Eg :- F = 6, G = 7 \equiv 67

Similarly, U = 21, V = 22 \equiv 2122

=> Ans - (C)

Question 54

Select the related word/letters/number from the given alternatives.

867 : 21 :: 9164 : ?

- A 55
- B 25
- C 20
- D 65

Answer: C

Explanation:

Expression = 867 : 21 :: 9164 : ?

The second number is equal to the sum of digits of first number.

Eg :- 8 + 6 + 7 = 21

Similarly, 9 + 1 + 6 + 4 = 20

=> Ans - (C)

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Question 55

Find out the odd word/letters/number/number pair from the given alternatives.

- A Pen drive
- B Floppy disk
- C CD ROM
- D Mouse

Answer: D

Explanation:

Pen drive, floppy disk and CD ROM are storage devices, hence mouse is the odd one out.

=> Ans - (D)

Question 56

Find out the odd word/letters/number/number pair from the given alternatives.

- A BE
- B VZ
- C QU
- D KO

Answer: A

Explanation:

(A) : B (+3 letters) = E

(B) : V (+4 letters) = Z

(C) : Q (+4 letters) = U

(D) : K (+4 letters) = O

=> Ans - (A)

Question 57

Find out the odd word/letters/number/number pair from the given alternatives.

- A 992
- B 848
- C 749
- D 777

Answer: D

Explanation:

The sum of digits of all numbers but 777 is 20, hence it is the odd one out.

=> Ans - (D)

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Question 58

Find out the odd word/letters/number/number pair from the given alternatives.

- A 550
- B 945
- C 963
- D 320

Answer: D

Explanation:

The pattern followed is that the difference of first two digit is equal to the third digit, but $3 - 2 \neq 0$, hence 320 is the odd one out.

=> Ans - (D)

Question 59

A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series. Arctic Circle, Tropic of Cancer, ?, Tropic of Capricorn

- A Temperate zone
- B Equator
- C Antarctic Circle
- D Prime Meridian

Answer: B

Explanation:

The circle of latitude of Earth starting from northern hemisphere are given.

= Arctic Circle -> Tropic of Cancer -> Equator -> Tropic of Capricorn

=> Ans - (B)

Question 60

A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series. 730, 1001, 1332, 1729, ?

- A 1236
- B 3256
- C 2910
- D 2198

Answer: D

Explanation:

The pattern followed is :

$$9^3 + 1 = 730$$

$$10^3 + 1 = 1001$$

$$11^3 + 1 = 1332$$

$$12^3 + 1 = 1729$$

$$13^3 + 1 = \mathbf{2198}$$

=> Ans - (D)

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Question 61

In the following question, two statements are given each followed by two conclusions I and II. You have to consider the statements to be true even if they seem to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follows from the given statements.

Statement:

(I) Air purifier is the latest innovation of this decade.

(II) Marketers identified the need and grabbed the opportunity of polluted atmosphere and created a new product for people.

Conclusions:

(I) The reason for invention of air purifier is rising levels of pollution.

(II) The need is created in market about the product and then it is established.

- A Only conclusion II follows
- B Conclusion I and II both follow
- C Neither I nor II follow
- D Only conclusion I follows

Answer: D

Explanation:

From statement II, as the pollution is rising marketers identified the need of air purifier and created the product air purifier. Hence conclusion I follows the given statements.

Marketers identified the need of air purifier but the need is not created in the market. Hence conclusion II do follow the given statements.

∴ Only conclusion I follows the given statements.

Hence, the correct answer is Option D

Question 62

A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series. ABC, ZYX, DEF, WVU, ?

- A GHI
- B IJK
- C MNO
- D EFG

Answer: A

Explanation:

Expression : ABC, ZYX, DEF, WVU, ?

The odd terms are consecutive letters of English alphabetical series, while the even terms are in reverse order

Eg :- ZYX is preceded by WVU

Similarly, ABC, DEF is followed by **GHI**

=> Ans - (A)

Question 63

A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series. GB, ID, LG, ?

- A NO
- B BA
- C PK
- D XY

Answer: C

Explanation:

Expression : GB, ID, LG, ?

The pattern followed in each letter of the terms is :

1st letter : G (+2 letters) = I (+3 letters) = L (+4 letters) = P

2nd letter : B (+2 letters) = D (+3 letters) = G (+4 letters) = K

Thus, missing term = PK

=> Ans - (C)

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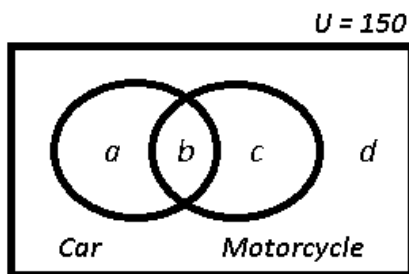
Question 64

There are 150 residents in a society. Out of them, 50 residents own a motorcycle, 60 residents own a car and 20 residents own both a car and a motorcycle. How many residents neither own a motorcycle nor a car?

- A 20
- B 30
- C 60
- D 10

Answer: C

Explanation:



$$\text{Total number of residents in the society} = a + b + c + d = 150 \text{ -----(i)}$$

$$\text{Residents who own motorcycle} = b + c = 50 \text{ -----(ii)}$$

$$\text{Residents who own car} = a + b = 60 \text{ -----(iii)}$$

$$\text{Also, Residents who own both car and motorcycle} = b = 20$$

$$\text{Substituting above values in equations (ii) and (iii), } \Rightarrow c = 50 - 20 = 30 \text{ and } a = 60 - 20 = 40$$

$$\therefore \text{ From equation (i), we get : } 40 + 20 + 30 + d = 150$$

$$\Rightarrow d = 150 - 90 = 60$$

Thus, 60 residents neither own a motorcycle nor a car.

=> Ans - (C)

Question 65

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

- i. Hunger
- ii. Horse
- iii. Hungry
- iv. Handmade

- A iv, ii, i, iii
- B iii, iv, ii, i
- C iv, iii, i, ii
- D i, iv, ii, iii

Answer: A

Explanation:

As per the order of dictionary :

= Handmade -> Horse -> Hunger -> Hungry

≡ iv, ii, i, iii

=> Ans - (A)

Question 66

In a certain code language, "ENERGETIC" is written as "ETICGENER". How is "CARTRIDGE" written in that code language?

A IDGES CART

B IDGER CRAT

C IDEGR CART

D IDGER CART

Answer: D

Explanation:

"ENERGETIC" is written as "ETICGENER"

The pattern followed is that the word is divided into 3 parts, i.e. = (ENER) (G) (ETIC) and the first part is swapped with the last one to get the desired code = ETIC G ENER

Similarly, for (CART) (R) (IDGE) : **IDGER CART**

=> Ans - (D)

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Question 67

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

64	56	46
32	20	36
9	29	?

A 45

B 23

C 20

D 51

Answer: B

Explanation:

The sum of each column is same.

Eg :- $64 + 32 + 9 = 105$

and $56 + 20 + 29 = 105$

Similarly, $46 + 36 + x = 105$

=> $x = 105 - 82 = 23$

=> Ans - (B)

Question 68

If "A" denotes "added to", "C" denotes "divided by", "D" denotes "multiplied by" and "B" denotes "subtracted from", then $81\ C\ 9\ D\ 11\ B\ 4\ A\ 6 = ?$

- A 101
- B 150
- C 102
- D 132

Answer: A

Explanation:

Expression : $81\ C\ 9\ D\ 11\ B\ 4\ A\ 6 = ?$

$$\equiv 81 \div 9 \times 11 - 4 + 6$$

$$= (9 \times 11) + 2$$

$$= 99 + 2 = 101$$

=> Ans - (A)

Question 69

In the following question, which one set of letters when sequentially placed at the gaps in the given letter series shall complete it?
t_vw_u_w_uvw

- A ttvt
- B vttt
- C utvt
- D uttt

Answer: C

Explanation:

The pattern followed is that in groups of 4, the term 'tuvw' is repeated.

$$= \text{tuvw\ tuvw\ tuvw}$$

=> Ans - (C)

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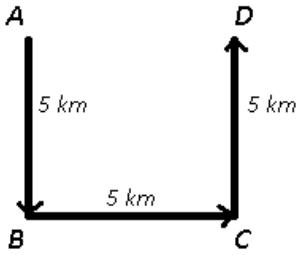
Question 70

Ram cycles 5 km in the south, and turns left to travel 5 km further. From there, he takes a left turn and travels 5 km more. How far(shortest distance) is he from his original position?

- A 5 km
- B $5\sqrt{5}$ km
- C 10 km
- D 6 km

Answer: A

Explanation:



Let Ram start from point A and travels 5 km towards the south to reach B, and then takes a left, and travels 5 km to reach C. Again, he takes a left and travels 5 km northwards and finally stop at point D.

Thus, he is **5 km** from his original position.

=> Ans - (A)

Question 71

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, 'N' can be represented by 21, 67 etc. and 'R' can be represented by 66, 57 etc. Similarly, you have to identify the set for the word 'PUMP'.

Matrix - I

	0	1	2	3	4
0	P	R	A	N	B
1	W	U	N	H	L
2	E	N	S	G	O
3	N	Y	P	O	M
4	M	T	O	F	A

Matrix - II

	5	6	7	8	9
5	Z	M	R	I	Q
6	X	R	N	W	P
7	C	S	Y	E	U
8	S	N	P	M	S
9	P	B	E	R	P

A 23, 57, 11, 88

B 69, 11, 40, 99

C 32, 02, 11, 87

D 00, 99, 87, 32

Answer: B

Explanation:

(A) : 23, 57, 11, 88 = GRUM

(B) : 69, 11, 40, 99 = **PUMP**

(C) : 32, 02, 11, 87 = PAUP

(D) : 00, 99, 87, 32 = PPPP

=> Ans - (B)

Question 72

Introducing a man, a woman says, "He is the son-in-law of the wife of my father and I am the only child of my parents". How is the man related to the woman?

- A Nephew
- B Husband
- C Brother-in-law
- D Cousin

Answer: B

Explanation:

Wife of the woman's father = woman's mother

Now, son-in-law of woman's mother = woman's husband

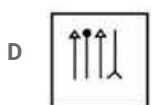
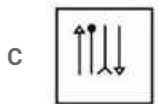
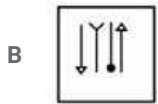
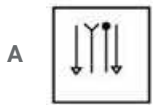
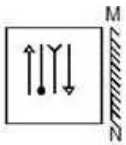
Thus, that man is the woman's husband.

=> Ans - (B)

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Question 73

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



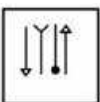
Answer: B

Explanation:

If a mirror is placed on the line MN,

The facing of the figure to the left and right direction changes to opposite direction in mirror image (right facing changes to left and vice versa)

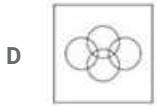
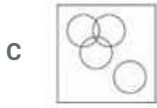
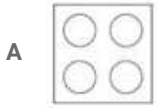
∴ The mirror image of the given figure is



Hence, the correct answer is Option B

Question 74

Identify the diagram that best represents the relationship among the given classes. Search engines, Google, Bing, Yahoo

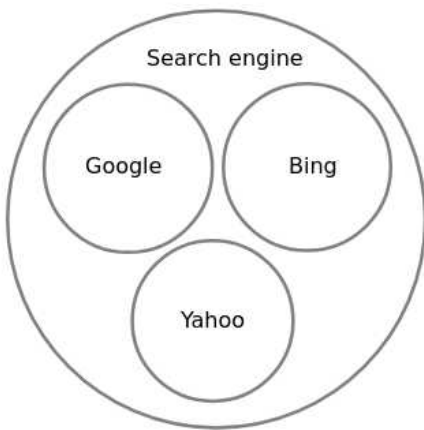


Answer: B

Explanation:

Google, Bing, Yahoo are different type of Search engines

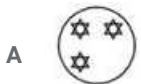
∴ The diagram that best represents the relationship among them is



Hence, the correct answer is Option B

Question 75

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: C

Explanation:

When the paper is unfolded, the pattern of cutting will be similar in the four parts of the paper.

When the paper is unfolded first to the top, a star will appear on the top part similarly.

When the paper is unfolded again to the right, one star each will appear on the top right and bottom right similarly.

∴ When the paper is unfolded it will appear as shown below



Hence, the correct answer is Option C

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General Awareness

Instructions

For the following questions answer them individually

Question 76

Buland Darwaza is the main entrance to the palace at?

- A Amer Fort
- B Gwalior Fort
- C Fatehpur Sikri
- D Agra Fort

Answer: C

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Question 77

Highest Civilian Honour received by Dilip Kumar is

- A Padma Shri
- B Padma Bhushan
- C Padma Vibhushan
- D Bharat Ratna

Answer: C

Question 78

Which of the following organs produces the enzyme lipase?

- A Pancreas
- B Large Intestine
- C Liver
- D Small Intestine

Answer: A

Question 79

A is a long internode forming the basal part or the whole of a peduncle.

- A rhizome
- B rachis
- C floral axis
- D scape

Answer: D

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Question 80

Which of the following organisms are considered to be both Living and Non-living?

- A Bacteria
- B Fungi
- C Algae
- D Virus

Answer: D

Question 81

The Chemical formula of Ammonium oxalate is

- A $\text{NH}_4\text{C}_2\text{O}_4$
- B $(\text{NH}_4)_2\text{C}_2\text{O}_4$
- C $(\text{NH}_4)_2\text{C}_2\text{O}_4$
- D c: $(\text{NH}_4)_2\text{C}_2\text{O}_4$
d: $(\text{NH}_4)_2\text{C}_2\text{O}_3$

Answer: C

Question 82

Benzene is in ethyl alcohol.

- A soluble
- B solute
- C insoluble
- D insolate

Answer: C

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Question 83

VoIP in computer science stands for?

- A Virtual over Identifier Protocol
- B Voice over Internet Protocol
- C Voice over Interface Protocol
- D Voice over Instruction Protocol

Answer: B

Question 84

The Indian musical instrument 'Surbahar' is of which type?

- A Impact
- B Wind
- C String
- D Percussion

Answer: C

Question 85

For a certain shoe factory the fixed costs are Rs 200,000, selling price is Rs 2000 per pair of shoes and variable cost is Rs 1200 per pair, what is the breakeven quantity?

- A 100
- B 62.5
- C 167
- D 250

Answer: D

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Question 86

Which of the following will cause an increase in the demand for coffee?

- A Price of coffee falling in foreign markets
- B Coffee prices are expected to fall rapidly in domestic markets
- C Average income falls in the country
- D Increase in price of tea

Answer: D

Question 87

Which of the following countries has the highest population density?

- A China
- B India
- C Phillipines
- D United Kingdom

Answer: B

Question 88

Which of the following constitutes highest percentage of Green House gases?

- A Ethane
- B Methane
- C Carbon Dioxide
- D Propane

Answer: C

SSC CGL Previous Papers (DOWNLOAD PDF)

Question 89

Who was a philosopher and theologian from India during early 8th century who consolidated the doctrine of Advaita Vedanta?

- A Adi Shankara
- B Dyaneshwar
- C Eknath
- D Madhvacharya

Answer: A

Question 90

In terms of size, Earth ranks no. in our Solar System.

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

Answer: A

Question 91

Which city is located on the banks of the river Ganges?

- A Mathura
- B Agra
- C Kanpur
- D Kota

Answer: C

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Question 92

Who was the first ruler of Pala dynasty?

- A Gopala
- B Vivyanathan
- C Dharmapala
- D Bhaskaran

Answer: A

Question 93

Which empire's time period is regarded as the Golden Age of India?

- A Maurya
- B Mughal
- C Gupta
- D Chola

Answer: C

Question 94

Who Invented Post-it note?

- A William Friese-Greene
- B Arthur Fry
- C Gordon Gould
- D Otto von Guericke

Answer: B

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Question 95

Which law states that the ratio of the potential difference across a conductor to the current flowing through it, is a constant, provided that its physical conditions, such as temperature, remain constant ?

- A Lenz's Law
- B Hooke's Law
- C Ohm's Law
- D The coulomb's law

Answer: C

Question 96

Which mirror is used in the headlights of cars?

- A Semi-circular
- B Conical
- C Convex
- D Concave

Answer: D

Question 97

What is the full form of the Indian Political Party "NCP"?

- A Nationalist Congress Party
- B National Congress Party
- C National Communist Party
- D Nationalist Communist Party

Answer: B

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Question 98

United Progressive Alliance was founded in?

- A 1951
- B 1998
- C 2004
- D 1980

Answer: C

Question 99

In which country, 13th South Asian games will be held?

- A India
- B Australia

C Nepal

D Pakistan

Answer: C

Question 100

Who is the author of "The Immortals of Meluha (Shiva Trilogy)"?

A Amish Tripathi

B Durjoy Datta

C Keshav Aneel

D Savi Sharma

Answer: A

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