



SSC CHSL 24 Jan 2017 Morning Shift

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Instructions

For the following questions answer them individually

Question 1

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.

Who taught you to drive a truck?

- A To drive a truck by whom were you taught?
- B Driving a truck by whom were you taught?
- C Driving a truck by who were you being taught?
- D By whom were you taught to drive a truck?

Answer: D

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Question 2

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

- A A person who keeps giving advice to others for things that they are not responsible
- B The one who is sitting in the back seat behaves like a boss
- C The real power lies in the hands of those who control the strings
- D The puppet dances to the actions of the puppeteer

Answer: A

Question 3

Rearrange the parts of the sentence in correct order.

A truly free nation will

P-will fail in the marketplace of ideas

Q-destruction as a bad idea that

R-confidently view even its advocated

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

Answer: D

Question 4

Select the synonym of antithesis

- A contradictory

- B harmony
- C affinity
- D analogy

Answer: A

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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.
Back to square one

- A Remembering one's past makes one humble
- B To be back to where one started, with no progress having been made
- C To become friends once again with a person with whom you had a fight
- D To apologize for one's past actions

Answer: B

Question 6

Rearrange the parts of the sentence in correct order.

I am not demanding

P-a set of ethical scripts whose

Q-political possibilities could be played out

R-a census of atrocity but

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

Answer: C

Question 7

Select the antonym of
to wring

- A to gouge
- B to untwist
- C to extort
- D to choke

Answer: B

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Question 8

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

The stadium was full(A)/of spectators(B)/from one end to other.(C)/No error(D)

A A

B B

C C

D D

Answer: C

Question 9

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

A gnarly

B bully

C lousy

D rad

Answer: C

Question 10

In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase. A formal agreement between individuals or parties.

A protocol

B norm

C league

D pact

Answer: D

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Question 11

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.

Amit said to the gardener, "Did you find the ring anywhere?"

A Amit asked the gardener that whether he had found the ring anywhere.

B Amit asked the gardener that if he did find the ring anywhere.

C Amit asked the gardener that if he did find the ring somewhere.

D Amit asked the gardener if he had found the ring anywhere.

Answer: D

Question 12

Improve the bracketed part of the sentence.
The (van's doors) are loose.

- A van-doors
- B door of the van
- C doors of the van
- D no improvement

Answer: C

Question 13

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'.

No one knows(A)/how he escaped(B)/being dashed to pieces.(C)/No error(D)

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

Answer: D

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Question 14

Select the word with the correct spelling.

- A ardvark
- B cubickles
- C jauntier
- D celiebate

Answer: C

Question 15

Select the word with the correct spelling.

- A reckliner
- B midling
- C sledeging
- D slimmest

Answer: D

Question 16

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.

How can any _____ person hope to know what thoughts transpire in so evil a mind?

- A rational
- B sober
- C thinking
- D negligent

Answer: A

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Question 17

Improve the bracketed part of the sentence.

I understood a good deal of (what was going on) about me.

- A that which was going on
- B what has had been going on
- C what that has been going on
- D no improvement

Answer: D

Question 18

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.

They played with the lambs in the field and saw no human _____ but the shepherd.

- A individual
- B beings
- C person
- D self

Answer: B

Question 19

Select the antonym of repatriation

- A abolition
- B animation

- C cure
- D invigoration

Answer: A

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Question 20

Select the synonym of "ascetic"

- A spree
- B austere
- C bacchanal
- D binge

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.

The very _____(1)_____ of apologizing and forgiveness _____(2)_____ the importance of memory and the vitality of the community as a link between past, present and future. It _____(3)_____ the question of the responsibility _____(4)_____ the past and its injustices. Somehow for many politicians, the past is a different country for _____(5)_____ they have no responsibility.

Question 21

The very _____ of apologizing

- A act
- B stand
- C behaviour
- D attitude

Answer: A

Question 22

forgiveness _____ the importance of memory and the vitality of the community

- A repeats
- B rectifies
- C replays
- D reiterates

Answer: D

Question 23

It _____ the question

- A hikes
- B raises
- C ups
- D boosts

Answer: B

Question 24

the responsibility _____ the past and its injustices.

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

Answer: C

Question 25

The past is a different country for _____ they have no responsibility.

- A that
- B those
- C which
- D whom

Answer: C

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Mathematics

Instructions

For the following questions answer them individually

Question 26

Which of the following is correct?

- A $(4x + 5y)(5x - 4y) = 20x^2 + 9xy - 20y^2$
- B $(4x + 5y)(5x - 4y) = 20x^2 + 41xy - 20y^2$
- C $(4x + 5y)(5x - 4y) = 20x^2 - 9xy + 20y^2$

D $(4x + 5y)(5x - 4y) = 20x^2 - 41xy + 20y^2$

Answer: A

Explanation:

Expression : $(4x + 5y)(5x - 4y)$

$= 4x(5x - 4y) + 5y(5x - 4y)$

$= 20x^2 - 16xy + 25xy - 20y^2$

$= 20x^2 + 9xy - 20y^2$

=> Ans - (A)

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Question 27

Ticket for an adult is Rs 1200 and a child is Rs 800 respectively. One child goes free with two adults. If a group has 25 adults and 5 children what is the discount the group gets?

A 17.24 percent

B 24. percent

C 24.41 percent

D 11.76 percent

Answer: D

Explanation:

Cost price of adult ticket = Rs. 1200 and child ticket = Rs. 800

For 25 adults and 5 children, total cost = $(25 \times 1200) + (5 \times 800)$

= Rs. (30,000 + 4,000) = Rs. 34,000

If one child goes free with two adults, => 5 children will go with 10 adults, thus all the children will go for free.

Cost of 25 adults = $25 \times 1200 = Rs. 30,000$

Discount % = $\frac{34000 - 30000}{34000} \times 100$

= 11.76 %

Question 28

When 0.363636.....is converted into a fraction, then the result is _____.

A 7/11

B 4/11

C 14/33

D 8/33

Answer: B

Explanation:

Let $x = 0.363636....$ -----(i)

Multiplying both sides by 100

=> $100x = 36.363636....$ -----(ii)

Subtracting equation (i) from (ii)

$$\Rightarrow 100x - x = (36.363636\dots) - (0.363636\dots)$$

$$\Rightarrow 99x = 36$$

$$\Rightarrow x = \frac{36}{99} = \frac{4}{11}$$

So, 0.363636... written in the form p/q is 4/11

Question 29

Rajan sells a machine for Rs 52 lakhs at a loss. Had he sold it for Rs 62 lakh, his gain would have been 9 times the former loss. What is the cost price of the machine?

- A Rs 61 lakhs
- B Rs 53 lakhs
- C Rs 67.77 lakhs
- D Rs 45 lakhs

Answer: B

Explanation:

Let cost price of the machine = Rs. x lakhs

Selling price = Rs. 52 lakhs

$$\Rightarrow \text{Loss} = \text{Rs. } (x - 52) \text{ lakhs}$$

If he sold it for Rs 62 lakh, his gain = Rs. $(62 - x)$ lakhs

$$\text{According to ques, } \Rightarrow (62 - x) = 9 \times (x - 52)$$

$$\Rightarrow 62 - x = 9x - 468$$

$$\Rightarrow 9x + x = 62 + 468 = 530$$

$$\Rightarrow x = \frac{530}{10} = \text{Rs. } 53 \text{ lakhs}$$

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Question 30

If 25% of an electricity bill is deducted, Rs 1788 is still to be paid. How much was the bill?

- A Rs 1430
- B Rs 2420
- C Rs 1466
- D Rs 2384

Answer: D

Explanation:

Let the bill = Rs. x

$$\text{If 25\% of bill is deducted, } \Rightarrow \text{Electricity bill} = \frac{75}{100} \times x$$

$$\text{According to question, } \Rightarrow \frac{3x}{4} = 1788$$

$$\Rightarrow x = \frac{1788}{3} \times 4$$

$$\Rightarrow x = 596 \times 4 = \text{Rs. } 2,384$$

=> Ans - (D)

Question 31

The sum of the ages of husband and wife at present is 60. Four years ago the ratio of their ages was 7:6. What is the age of the husband?

- A 28 years
- B 32 years
- C 42 years
- D 38 years

Answer: B

Explanation:

Let present age of husband = x years

=> Present age of wife = $(60 - x)$ years

Ratio of their ages 4 years ago = $\frac{x-4}{(60-x)-4} = \frac{7}{6}$

$$= \frac{x-4}{56-x} = \frac{7}{6}$$

$$= 6x - 24 = 392 - 7x$$

$$\Rightarrow 6x + 7x = 392 + 24 = 416$$

$$\Rightarrow x = \frac{416}{13} = 32 \text{ years}$$

Question 32

If $5x - 1 < 3x + 2$ and $5x + 5 > 6 - 2x$; then x can take which of the following values?

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

Answer: B

Explanation:

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

$$\Rightarrow 5x - 3x < 2 + 1 \Rightarrow 2x < 3$$

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

Expression 2 : $5x + 5 > 6 - 2x$

$$\Rightarrow 5x + 2x > 6 - 5 \Rightarrow 7x > 1$$

$$\Rightarrow x > \frac{1}{7} \text{ -----(ii)}$$

Combining above 2 inequalities, we get : $\frac{1}{7} < x < \frac{3}{2}$

Thus, the only integer value that x can take = 1

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Question 33

In an arithmetic progression, if 9 is the 5th term, -26 is the 12th term, then -6 is which term?

- A 11
- B 8
- C 10
- D 7

Answer: B

Explanation:

The n^{th} term of an A.P. = $a + (n - 1)d$, where 'a' is the first term, 'n' is the number of terms and 'd' is the common difference.

5th term, $A_5 = a + (5 - 1)d = 9$

$\Rightarrow a + 4d = 9$ -----(i)

Similarly, 12th term, $A_{12} = a + 11d = -26$ -----(ii)

Subtracting equation (i) from (ii), we get :

$\Rightarrow (11d - 4d) = -26 - 9$

$\Rightarrow d = \frac{-35}{7} = -5$

Substituting it in equation (i), $\Rightarrow a - 20 = 9$

$\Rightarrow a = 9 + 20 = 29$

Let n^{th} term = -6

$\Rightarrow a + (n - 1)d = -6$

$\Rightarrow 29 + (n - 1)(-5) = -6$

$\Rightarrow (n - 1)(-5) = -6 - 29 = -35$

$\Rightarrow (n - 1) = \frac{-35}{-5} = 7$

$\Rightarrow n = 7 + 1 = 8$

Question 34

What is the distance between the points (11,-5) and (-1,0)?

- A 169 units
- B 12 units
- C 13 units
- D 144 units

Answer: C

Explanation:

Distance between two points (x_1, y_1) and $(x_2, y_2) = \sqrt{(y_2 - y_1)^2 + (x_2 - x_1)^2}$

Now, distance between points (11,-5) and (-1,0)

$= \sqrt{(-1 - 11)^2 + (0 + 5)^2} = \sqrt{(-12)^2 + (5)^2}$

$= \sqrt{144 + 25} = \sqrt{169}$

$= 13$ units

=> Ans - (C)

Question 35

What is the equation of the line if its slope is $\frac{4}{3}$ and it passes through the point $(-7, 2)$?

A $4x - 3y = -22$

B $4x + 3y = -34$

C $4x + 3y = -22$

D $4x - 3y = -34$

Answer: D

Explanation:

Equation of line with slope $m = \frac{4}{3}$ and passing through $(x_1, y_1) = (-7, 2)$

$$= (y - y_1) = m(x - x_1)$$

$$= (y - 2) = \frac{4}{3}(x + 7)$$

$$= 3y - 6 = 4x + 28$$

$$= 4x - 3y = -34$$

=> Ans - (D)

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Question 36

In ΔPQR , S and T are points on side PQ and PR respectively. ST is parallel to QR. If S divides PQ in the ratio 1:5 and length of QR is 15 cm, find ST?

A 2.4 cm

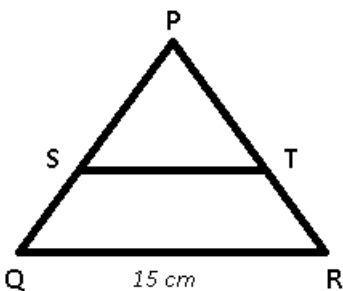
B 3.6 cm

C 2.5 cm

D 5.6 cm

Answer: C

Explanation:



ST is parallel to QR

Let $PS = x$ and $SQ = 5x$

$$\Rightarrow \frac{PS}{PQ} = \frac{ST}{QR}$$

$$\Rightarrow \frac{x}{x+5x} = \frac{ST}{15}$$

$$\Rightarrow \frac{1}{6} = \frac{ST}{15}$$

$$\Rightarrow ST = \frac{15}{6} = 2.5 \text{ cm}$$

Question 37

If the amount received at the end of 2nd and 3rd year at Compound Interest on a certain Principal is Rs 16854, and Rs 17865.24 respectively, what is the rate of interest?

- A 3 percent
- B 12 percent
- C 6 percent
- D 10 percent

Answer: C

Explanation:

Compound interest at the end of 2nd year = Rs. 16,854

Compound interest at the end of 3rd year = Rs. 17,865.24

$$\Rightarrow \text{Difference} = 17865.24 - 16854 = \text{Rs. } 1011.24$$

This is the interest obtained on the amount of 2nd year.

$$\therefore \text{Rate of interest, } r = \frac{1011.24}{16854} \times 100 = 6\%$$

\Rightarrow Ans - (C)

Question 38

Meghnad can do a piece of work in 45 hours. If he is joined by Jayshri, who is 50% more efficient, in what time will they together finish the work?

- A 9 hours
- B 6 hours
- C 12 hours
- D 18 hours

Answer: D

Explanation:

Let total work to be done = 90 units

$$\text{Meghnad's efficiency} = \frac{90}{45} = 2 \text{ units/hr}$$

$$\text{Jayshri is 50\% more efficient than Meghnad, } \Rightarrow \text{Jayshri's efficiency} = \frac{150}{100} \times 2 = 3 \text{ units/hr}$$

$$\Rightarrow \text{Meghnad and Jayshri 1 day's work} = 2 + 3 = 5 \text{ units/hr}$$

$$\therefore \text{Time taken by them to finish the work together} = \frac{90}{5} = 18 \text{ hours}$$

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Question 39

The average revenues of 11 consecutive years of a company is Rs 77 lakhs. If the average of first 6 years is Rs 72 lakhs and that of last 6 years is Rs 84 lakhs, What is the revenue for the Sixth year.

- A Rs 91 lakhs

B Rs 87 lakhs

C Rs 85 lakhs

D Rs 89 lakhs

Answer: D

Explanation:

Total revenues of 11 years of the company = $77 \times 11 = \text{Rs. } 847$ lakhs

Total revenue of first 6 years = $72 \times 6 = \text{Rs. } 432$ lakhs

Total revenue of last 6 years = $84 \times 6 = \text{Rs. } 504$ lakhs

\therefore Revenue of 6th year = $(432 + 504) - 847 = 936 - 847$

= Rs. 89 lakhs

Question 40

In $\triangle ABC$, the median AD is 8 cm and CB is 16 cm, measure of angle CAB is _____.

A 90°

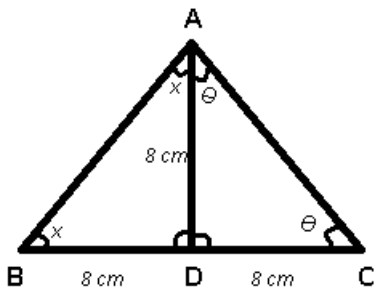
B 30°

C 60°

D 120°

Answer: A

Explanation:



BC = 16 cm and AD is the median which bisects BC at D, $\Rightarrow BD = DC = 8$ cm

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

Let $\angle ACD = \angle CAD = \theta$

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

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

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

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

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

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

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

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

$\Rightarrow (x + \theta) = \frac{180}{2}$

$\Rightarrow \angle CAB = 90^\circ$

Question 41

The third proportional of two numbers 12 and 48 is

- A 84
- B 96
- C 192
- D 144

Answer: C

Explanation:

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

Here, a = 12 and b = 48

$$\Rightarrow (48)^2 = 12 \times c$$

$$\Rightarrow c = \frac{48 \times 48}{12} = 4 \times 48$$

$$\Rightarrow c = 192$$

\Rightarrow Ans - (C)

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Question 42

If curved surface area of a cylinder is 616 sq cm and height is 14 cm, find its radius?

- A 14 cm
- B 7 cm
- C 21 cm
- D 3.5 cm

Answer: B

Explanation:

Let radius of cylinder = r cm and height = 14 cm

Curved surface area of cylinder = $2\pi rh = 616$

$$\Rightarrow 2 \times \frac{22}{7} \times r \times 14 = 616$$

$$\Rightarrow 4 \times 22 \times r = 616$$

$$\Rightarrow r = \frac{616}{88} = 7 \text{ cm}$$

Question 43

Two students appeared for an examination. One of them secured 22 marks more than the other and his marks were 55% of the sum of their marks. The marks obtained by them are _____.

- A 121 and 99
- B 43 and 21
- C 58 and 36

D 86 and 64

Answer: A

Explanation:

Let marks scored by 1st student = x

\Rightarrow Marks scored by another student = $(x + 22)$

According to question, $\Rightarrow (x + 22) = \frac{55}{100} \times (x + x + 22)$

$\Rightarrow x + 22 = \frac{11}{10} \times (x + 11)$

$\Rightarrow 10x + 220 = 11x + 121$

$\Rightarrow x = 220 - 121 = 99$

\therefore Marks scored by other student = $99 + 22 = 121$

Question 44

What is the value of $\cot 11\pi/6$?

A $-\sqrt{3}$

B -1

C $\sqrt{3}$

D $-1/2$

Answer: A

Explanation:

Expression : $\cot 11\pi/6$

$= \cot(2\pi - \frac{\pi}{6})$

$= -\cot \frac{\pi}{6} = -\sqrt{3}$

\Rightarrow Ans - (A)

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Question 45

$2\cos[(C+D)/2]\sin[(C-D)/2]$ is equal to

A $\sin C + \sin D$

B $\sin C - \sin D$

C $\cos C - \cos D$

D $\cos C + \cos D$

Answer: B

Explanation:

Expression : $2\cos[(C+D)/2]\sin[(C-D)/2]$

Using the formula : $\sin x \cdot \cos y = \frac{1}{2} [\sin(x+y) + \sin(x-y)]$ -----(i)

Substituting $(x+y) = C$ and $(x-y) = D$

$\Rightarrow x = \frac{C+D}{2}$ and $y = \frac{C-D}{2}$ in equation (i),

$$\Rightarrow \sin\left(\frac{C+D}{2}\right) \cdot \cos\left(\frac{C-D}{2}\right) = \frac{1}{2}[\sin C + \sin D]$$

$$\Rightarrow 2 \cdot \cos\left(\frac{C-D}{2}\right) \cdot \sin\left(\frac{C+D}{2}\right) = \sin C + \sin D$$

Replacing D by -D, we get :

$$\Rightarrow 2 \cdot \cos\left(\frac{C-(-D)}{2}\right) \cdot \sin\left(\frac{C+(-D)}{2}\right) = \sin C + \sin(-D)$$

$$\Rightarrow 2 \cdot \cos\left(\frac{C+D}{2}\right) \cdot \sin\left(\frac{C-D}{2}\right) = \sin C - \sin D$$

Question 46

$\tan^2 A \sin^2 A$ is equal to

A $\tan^2 A - \sin^2 A$

B $\tan^2 A + \sin^2 A$

C $\cot^2 A - \sin^2 A$

D $\cot^2 A + \sin^2 A$

Answer: A

Explanation:

Expression : $\tan^2 A \sin^2 A$

Using, ($\sin^2 A + \cos^2 A = 1$)

$$= \frac{\sin^2 A}{\cos^2 A} (1 - \cos^2 A)$$

$$= \frac{\sin^2 A}{\cos^2 A} - \sin^2 A$$

$$= \tan^2 A - \sin^2 A$$

\Rightarrow Ans - (A)

Question 47

Read the data in the table and answer the Given questions?

	No of Employees	Annual salary	Bonus Percent of salary
Manager	1	36	60%
Executive	6	8	30%
Trainee	2	2	20%

What is the average bonus in rupees?

A 3680001

B 153333

C 408889

D 244000

Answer: C

Explanation:

$$\text{Total bonus of managers (in lakh)} = 1 \times 36 \times \frac{60}{100} = 21.6 \text{ lakhs}$$

$$\text{Total bonus of executive (in lakh)} = 6 \times 8 \times \frac{30}{100} = 14.4 \text{ lakhs}$$

$$\text{Total bonus of trainee (in lakh)} = 2 \times 2 \times \frac{20}{100} = 0.8 \text{ lakhs}$$

$$\Rightarrow \text{Average bonus in rupees} = \frac{(21.6+14.4+0.8)}{(1+6+2)}$$

$$= \frac{36.8}{9} = 4.08889 \text{ lakhs} = 4,08,889$$

=> Ans - (C)

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Question 48

Read the data and answer the given questions

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

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 :

$$2011 = 5000 + 5000 + 5000 = 15000$$

$$2012 = 5000 + 4000 + 4000 = 13000$$

$$2013 = 1000 + 2000 + 2000 = 5000$$

$$2014 = 1000 + 5000 + 5000 = 11000$$

$$2015 = 3000 + 5000 + 3000 = 11000$$

Clearly, total exports in 2014 and 2015 are equal to 11000

=> Ans - (D)

Question 49

Read the table data answer the given questions?

Years	Profit/(-loss) in crores
2011	-20
2012	-20
2013	-5
2014	10
2015	-10

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

- A Loss of Rs 55 crores
- B Loss of Rs 45 crores
- C Profit of Rs 45 crores
- D Profit of Rs 55 crores

Answer: B

Explanation:

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

$$= -20 - 20 - 5 + 10 - 10$$

$$= -45$$

Since, it is negative, thus loss of Rs. 45 crore

=> Ans - (B)

Question 50

Read the data and answer the given Questions ?

India's Exports in 2015	Value in Million US \$
Jewellery	950
Softyware	525
Cotton	725
Steel	525
Electronics	950

Electronics was what percent of the total Exports?

A 30.85 percent

B 28.35 percent

C 25.85 percent

D 23.35 percent

Answer: C

Explanation:

Value in millions of Electronics = 950

Total exports = 950 + 525 + 725 + 525 + 950 = 3675

$$\Rightarrow \% \text{ of Electronics in total exports} = \frac{950}{3675} \times 100$$

$$= \frac{3800}{147} \approx 25.85\%$$

=> Ans - (C)

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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.

Snooker : Stick :: Cricket : ?

A Ball

B Bat

C Pad

D Helmet

Answer: B

Explanation:

Expression = Snooker : Stick :: Cricket : ?

Snooker is played by using a stick, similarly the game of cricket is played by using a *bat*.

=> Ans - (B)

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Question 52

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

MT : JW :: RP : ?

A LM

B OS

C KL

D NR

Answer: B

Explanation:

Expression = MT : JW :: RP : ?

The pattern followed is :

M	T
(-3)	(+3)
J	W

Similarly, RP : OS

R	P
(-3)	(+3)
O	S

=> Ans - (B)

Question 53

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

TZ : W :: NT : ?

A P

B K

C R

D Q

Answer: D

Explanation:

Expression = TZ : W :: NT : ?

The pattern followed is that when numerical values are assigned to the alphabets, then the alphabet in the right side is the average of first set of alphabets.

$$\text{Eg :- } T=20, Z=26 \equiv \frac{(20+26)}{2} = \frac{46}{2} = 23 \equiv W$$

$$\text{Similarly, } N=14, T=20 \equiv \frac{(14+20)}{2} = \frac{34}{2} = 17 \equiv Q$$

=> Ans - (D)

Question 54

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

23 : 6 :: 43 : ?

A 10

B 9

C 18

D 12

Answer: D

Explanation:

Expression = 23 : 6 :: 43 : ?

The second number is the result of product of digits of first number.

Eg :- $2 \times 3 = 6$

Similarly, $4 \times 3 = 12$

=> Ans - (D)

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Question 55

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

A Sagarmatha

B Mount Everest

C Kanchenjunga

D Chomolungma

Answer: C

Explanation:

Mount Everest is known in Nepali as Sagarmatha and in Tibetan as Chomolungma, hence Kanchenjunga is the odd one out.

=> Ans - (C)

Question 56

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

A MNO

B LSS

C PQR

D TUV

Answer: B

Explanation:

Except for LSS, all other letters are consecutive alphabets according to the English alphabetical order, hence LSS is the odd one out.

=> Ans - (B)

Question 57

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

- A 222
- B 2222
- C 2332
- D 10648

Answer: A

Explanation:

Except for 222, all other numbers are divisible by 11, hence 222 is the odd one out.

=> Ans - (A)

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Question 58

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

- A 5687
- B 4267
- C 5789
- D 4977

Answer: C

Explanation:

The pattern followed is that the product of last two digits is equal to the first two digits, but $8 \times 9 \neq 57$, hence 5789 is the odd one out.

=> Ans - (C)

Question 59

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

Telephone, Radio, ? , Laptop

- A Telescope
- B Bulb
- C Pen
- D Mobile

Answer: D

Explanation:

List of electronic devices is given.

= Telephone, Radio, Mobile , Laptop

=> Ans - (D)

Question 60

A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series. AB, FG, KL, PQ, ?

- A ST
- B UV
- C QS
- D FO

Answer: B

Explanation:

Expression : AB, FG, KL, PQ, ?

The pattern followed in each letter of the terms is :

1st letter : A (+5 letters) = F (+5 letters) = K (+5 letters) = P (+5 letters) = U

2nd letter : B (+5 letters) = G (+5 letters) = L (+5 letters) = Q (+5 letters) = V

Thus, missing term = **UV**

=> Ans - (B)

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Question 61

A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series. KRK, LTN, MVQ, ?

- A OXT
- B NYT
- C NXT
- D NYU

Answer: C

Explanation:

Expression : KRK, LTN, MVQ, ?

The pattern followed in each letter of the terms is :

1st letter : K (+1 letter) = L (+1 letter) = M (+1 letter) = N

2nd letter : R (+2 letters) = T (+2 letters) = V (+2 letters) = X

3rd letter : K (+3 letters) = N (+3 letters) = Q (+3 letters) = T

Thus, missing term = **NXT**

=> Ans - (C)

Question 62

A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series. 11, 121, 1331, 14641, ?

- A 16051
- B 161051

C 131769

D 29282

Answer: B

Explanation:

The pattern followed is :

$$11^1 = 11$$

$$11^2 = 121$$

$$11^3 = 1331$$

$$11^4 = 14641$$

$$11^5 = 161051$$

=> Ans - (B)

Question 63

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) Happiness is around everyone, we have to find it.

(II) Happiness is a state of mind. If we can't find it, we should create it.

Conclusions:

(I) Creation of happiness itself makes an individual satisfied and happy because creativity is constructive.

(II) It's all about analyzing the situational factors to understand happiness.

A Only conclusion II follows

B Conclusion I and II both follow

C Neither I nor II follow

D Only conclusion I follows

Answer: C

Explanation:

There is no information in the statements that the creation of happiness itself makes an individual satisfied and happy. Hence conclusion I do not follow the given statements.

Also there is no information about the situational factors in the given statements. So conclusion II may or may not be true. Hence conclusion II do not follow the given statements.

∴ Neither conclusion I nor conclusion II follow the given statements

Hence, the correct answer is Option C

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Question 64

If 5th September 2008 was a Monday, what day of the week was 9th October 2008?

A Saturday

B Friday

C Sunday

D Monday

Answer: C

Explanation:

According to the question, 5th September is Monday

Number of days left in September = $30 - 5 = 25$

Similarly, odd days from 5th September till 9th October = $(25 + 9) \% 7$

= $4 + 2 = 6$

Thus, day on 9th October = Monday (+6) = Sunday

=> Ans - (C)

Question 65

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

- i. Savage
- ii. Sausage
- iii. Savour
- iv. Saviour

A iii, iv, i, ii

B ii, i, iv, iii

C ii, iii, i, iv

D iii, iv, ii, i

Answer: B

Explanation:

As per the order of dictionary :

= Sausage -> Savage -> Saviour -> Savour

≡ ii, i, iv, iii

=> Ans - (B)

Question 66

In a certain code language, "RUMOUR" is written as "MURRUO". How is "RACKET" written in that code language?

A TEKCAR

B CARKET

C CARTEK

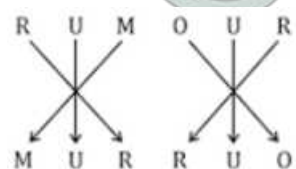
D TECAR

Answer: C

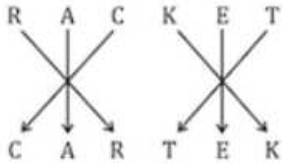
Explanation:

"RUMOUR" is written as "MURRUO"

The pattern followed is :



Similarly, for RACKET :



=> Ans - (C)

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Question 67

Find the missing number as per given series ?

2	3	6
5	5	7
343	512	?

- A 2197
- B 729
- C 709
- D 1000

Answer: A

Explanation:

The number at the end in each column is the cube of the sum of other two numbers.

$$\text{Eg :- } (5 + 2)^3 = (7)^3 = 343$$

$$(3 + 5)^3 = (8)^3 = 512$$

$$\text{Similarly, } (6 + 7)^3 = (13)^3 = 2197$$

=> Ans - (A)

Question 68

If "A" means "plus", "B" means "divide", "C" means "multiply" and "D" means "minus", then $162 \text{ B } 27 \text{ C } 5 \text{ A } 8 \text{ D } 35 = ?$

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

Answer: B

Explanation:

Expression : $162 \text{ B } 27 \text{ C } 5 \text{ A } 8 \text{ D } 35 = ?$

$$\equiv 162 \div 27 \times 5 + 8 - 35$$

$$= (6 \times 5) - 27$$

$$= 30 - 27 = 3$$

=> Ans - (B)

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?
K_L_K_LN_M_N

- A MNMLK
- B NMMLK
- C MNMKL
- D MLNKM

Answer: C

Explanation:

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

= KMLN KMLN KMLN

=> Ans - (C)

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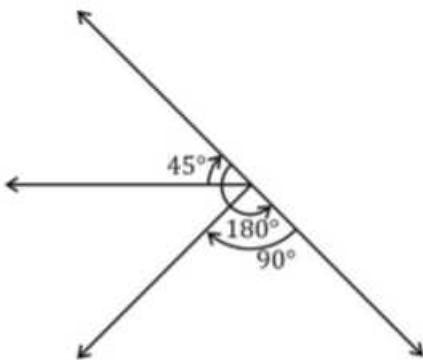
Question 70

A man is facing towards the west. He turns 45 degrees clockwise and then another 180 degrees anticlockwise. Finally, he turns 90 degrees in the right. Which direction is he facing now?

- A West
- B South-east
- C North-east
- D South-west

Answer: D

Explanation:



A man is facing towards the west. He turns 45 degrees clockwise and faces north-west, then turns another 180 degrees anticlockwise and now faces south-east. Finally, he turns 90 degrees in the right.

Thus, he is facing South-west direction in the end.

=> Ans - (D)

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, 'F' can be represented by 32, 42 etc. and 'M' can be represented by 88, 68 etc. Similarly, you have to identify the set for the word TURN.

MATRIX 1:

	0	1	2	3	4
0	A	N	U	H	E
1	U	A	N	L	L
2	U	G	A	N	E
3	U	L	F	A	U
4	U	L	F	N	E

MATRIX 2:

	5	6	7	8	9
5	I	S	T	R	O
6	R	I	T	M	S
7	R	S	G	R	O
8	T	S	T	R	R
9	S	T	T	M	S

- A 67, 20, 76, 43
- B 57, 01, 65, 12
- C 85, 30, 89, 23
- D 97, 02, 78, 22

Answer: C

Explanation:

- (A) : 67, 20, 76, 43 = TUSN
- (B) : 57, 01, 65, 12 = TNRN
- (C) : 85, 30, 89, 23 = **TURN**
- (D) : 97, 02, 78, 22 = TURA

=> Ans - (C)

Question 72

Shubham's mother is the sister-in-law of Shashi and Shashi is the only daughter of Parmeshwar. Ravi is Shubham's brother. How is Shashi related to Ravi?

- A Grandmother
- B Aunt
- C Sister
- D Cousin

Answer: B

Explanation:

Shubham's mother is the sister-in-law of Shashi, => Shashi is the aunt of Shubham.

Shashi is the only daughter of Parmeshwar, => Parmeshwar is the grandfather of Shubham.

Ravi is Shubham's brother.

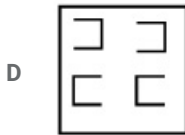
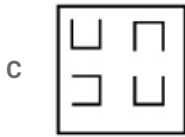
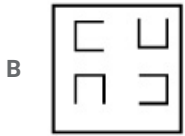
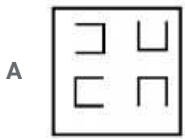
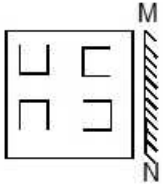
Thus, Shashi is Ravi's aunt.

=> 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: A

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

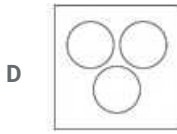
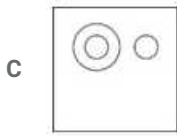
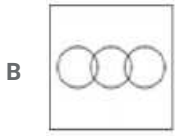
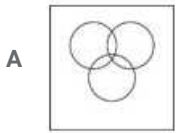


Hence, the correct answer is Option A

Question 74

Identify the diagram that best represents the relationship among the given classes.

Women, Trainer, Pilot



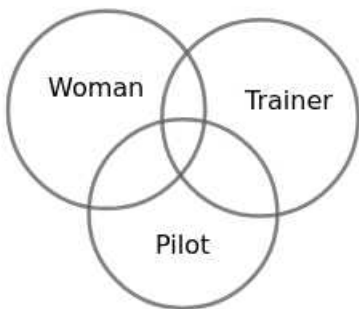
Answer: A

Explanation:

A woman can be a trainer and a pilot

A trainer can be a pilot and a woman

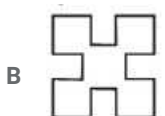
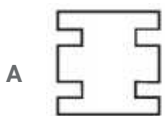
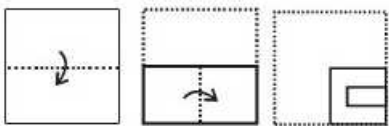
∴ The diagram that best represents the relationship between them is

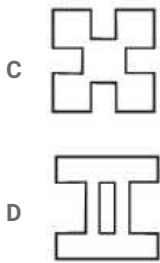


Hence, the correct answer is Option A

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.





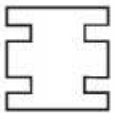
Answer: A

Explanation:

When the paper is unfolded to the left, rectangular cut will appear similarly on the left part.

When the paper is unfolded again to the top, two rectangular cuts one each on the top left and top right will appear on the paper.

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



Hence, the correct answer is Option A

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General Awareness

Instructions

For the following questions answer them individually

Question 76

_____ has a collection of architectural astronomical instruments, built by Maharaja Jai Singh II.

- A Jantar Mantar observatory, Jaipur
- B Group of Monuments at Hampi
- C Group of Monuments at Pattadakal
- D Nalanda, Bihar

Answer: A

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Question 77

B.D.Goenka Award was established to recognise contributions made by individuals in building and furthering the cause of _____.

- A Science
- B Journalism
- C Technology
- D Sports

Answer: B

Question 78

The fat digesting enzyme Lipase is secreted by which part of the body ?

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

Answer: B

Question 79

The arrangement of leaves on an axis or stem is called

- A Phyllotaxy
- B vernation
- C venation
- D phytotaxy

Answer: A

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Question 80

The study of Cells is also known as

- A Cytology
- B Physiology
- C Nucleology
- D Cellology

Answer: A

Question 81

The Chemical formula of Urea is

- A $(NH_2)_2CO_2$
- B $(NH_2)_2CO$
- C NH_2CO_2

- D
 - b: $(NH_2)_2CO$
 - c: $(NH_2)_2CO_2$
 - d: $(NH_2)_2CO$

Answer: D

Question 82

Atomic number of which of the following elements is greater than that of Magnesium

- A Neon
- B Fluorine
- C Sodium
- D Aluminium

Answer: D

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Question 83

TCP in computer science stands for?

- A Transmission Control Protocol
- B Total Control Protocol
- C Technology Control Protocol
- D Transfer Control Protocol

Answer: A

Question 84

"Ganga Sagar Mela" fair is held in which state?

- A Uttarakhand
- B Uttar Pradesh
- C West Bengal
- D Maharashtra

Answer: C

Question 85

If a person's income increases from Rs 20 lakhs per year to Rs 24 lakhs per year and tax increases from Rs 3,50,000 to Rs 4,00,000 the marginal tax rate is

- A 8 percent
- B 12.5 percent
- C 10 percent
- D 15 percent

Answer: B

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Question 86

If goods A and Z are complements, an increase in the price of good Z will _____.

- A increase demand for good A
- B decrease demand for good A
- C decrease demand for good Z
- D increase demand for good Z

Answer: B

Question 87

Which of the following is a renewable source of energy?

- A Coal
- B Petroleum
- C Plant
- D Natural Gas

Answer: C

Question 88

Dandeli Wildlife Sanctuary is in which state?

- A Orissa
- B Maharashtra
- C Gujarat
- D Karnataka

Answer: D

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Question 89

Khangchendzonga National Park, also known as Kanchenjunga Biosphere Reserve, is located in _____.

- A West Bengal
- B Assam
- C Sikkim
- D Meghalaya

Answer: C

Question 90

Shimla is the capital of which Indian State?

- A Chattisgarh
- B Goa
- C Himachal Pradesh
- D Jharkhand

Answer: C

Question 91

What is the capital of Denmark?

- A Copenhagen
- B Stockholm
- C Vienna
- D Oslo

Answer: A

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Question 92

Tripitakas are sacred books of _____.

- A Sikhs
- B Jews
- C Buddhists
- D Muslims

Answer: C

Question 93

Bahadur Shah I (1707-1712 AD) was the ruler of which dynasty?

- A Nanda
- B Maurya
- C Mughal
- D Haryanka

Answer: C

Question 94

Who Invented water turbine?

- A Enrico Fermi
- B Adolf Gaston Eugen Fick

C Sandford Fleming

D Benoit Fourneyron

Answer: D

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Question 95

_____ of a wave is the rate of transfer of energy per unit area perpendicular to the direction of travel of the wave.

A Interference

B Rectification

C Intensity

D Diffraction

Answer: C

Question 96

Motion of a train is an example of which kind of motion?

A Rotatory motion

B Spin motion

C Projectile motion

D Translatory motion

Answer: D

Question 97

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

A Bharatiya Samaj Party

B Bahujan Samaj Party

C Bharatiya Sangh Party

D Bahujan Sangh Party

Answer: B

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Question 98

The number of parliamentary seats (Rajya Sabha) of Tamil Nadu is

A 12

B 16

C 18

D 31

Answer: C

Question 99

Santosh Trophy is related to which sports?

A Boxing

B Kabaddi

C Football

D Basketball

Answer: C

Question 100

Who is the author of "Midnight's Children"?

A Jhumpa Lahiri

B Amish Tripathi

C Ravinder Singh

D Salman Rushdie

Answer: D

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